

Boeing Realty Corporation's  
C-6 Facility • Los Angeles, California  
**GROUNDWATER MONITORING REPORT**  
**2<sup>nd</sup> QUARTER 2000**

**JULY 2000**

*Prepared for:*

**BOEING REALTY CORPORATION**  
4060 Lakewood Boulevard, Sixth Floor  
Long Beach, CA 90808

*Prepared by:*

**KENNEDY/JENKS CONSULTANTS**  
2151 Michelson Drive, Suite 100  
Irvine, CA 92612-1311

**KJ 004016.00**

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## **1 INTRODUCTION**

The Boeing Realty Corporation (BRC) tasked Kennedy/Jenks Consultants (Kennedy/Jenks) to perform ongoing quarterly groundwater monitoring at the BRC, C-6 facility, located at 1905 Normandie Avenue, Los Angeles, California (Site). The location of the Site is shown on Figure 1. This report summarizes monitoring activities and the results of laboratory analysis of groundwater samples for the second quarter 2000 that were collected in June 2000.

The site was formerly the Douglas Aircraft Company (DAC) C-6 Facility. Our field activities were performed in coordination with redevelopment operations for this site.

## **2 QUARTERLY GROUNDWATER MONITORING PROGRAM**

The second quarter 2000 groundwater sampling event included samples from a total of 30 wells. Static water level depths were measured prior to purging the wells, and groundwater samples were collected from 20 June to 26 June 2000. Groundwater samples were collected from the following wells:

WCC-3S	DAC-P1	TMW-7
WCC-4S	BL-1	TMW-8
WCC-5S	BL-2	TMW-9
WCC-6S	BL-3	TMW-10
WCC-7S	TMW-1	TMW-11
WCC-9S	TMW-2	TMW-12
WCC-10S	TMW-3	TMW-13
WCC-11S	TMW-4	TMW-14
WCC-12S	TMW-5	TMW-15
WCC-3D	TMW-6	TMW-16

The WCC and DAC monitoring wells were constructed in 1987 as part of a groundwater investigation (Woodward Clyde, 1987). The TMW monitoring wells were constructed by Kennedy /Jenks in 1998 and 1999 as part of the ongoing subsurface investigation (Kennedy/Jenks, 1999 and 2000). The BL monitoring wells were constructed by Harding Lawson and Associates in 1999. The well construction details for the wells listed above are summarized in Table 1. The well locations are shown on Figure 2.

Groundwater samples collected from these wells were analyzed for:

- Volatile Organic Compounds (VOCs) by EPA Method 8260,
- Diesel (extractable petroleum hydrocarbons) and gasoline (volatile petroleum hydrocarbons) by EPA Method 8015 modified,
- Semi Volatile Organic Compounds (SVOCs) by EPA Method 8270,
- Pesticides by EPA Method 8080,
- Total Metals (Title 22) by EPA Methods 6010, 7471 and 7196.

## **2.1 Groundwater Sampling Procedures**

Second quarter 2000 groundwater sampling was performed in accordance with standard sampling procedures. Field activities performed at each well were documented on purge and sample forms (Appendix A). Prior to collecting groundwater samples from each well, groundwater was purged using an electrical submersible pump that was temporarily installed in the monitoring well. After lowering the pump to the approximate mid-point of the saturated well screen, approximately three wetted-casing volumes of groundwater were purged from the well until successive measurements of pH, electrical conductivity, and temperature had stabilized to within 10% of previous readings. Purged groundwater was collected in DOT approved 55-gallon drums pending the results of laboratory analysis of samples. Drums containing purge water were left onsite at a location designated by BRC personnel.

Following groundwater purging, the flow rate of the submersible pump was reduced to 200 milliliters/minute and samples were collected in two 40-ml vials. The samples were numbered based on the following convention:

Well Number – Water Sample – Date Sampled

Example: TMW-11-W-062100

The samples were placed in a cooler and were shipped to Orange Coast Analytical Services, a State-certified analytical laboratory, for analysis.

## **2.2 Field QA/QC Procedures**

Samples were collected and handled using industry standard QA/QC Procedures. Samples were transported under strict chain-of-custody procedures. Quality control measures performed during this groundwater monitoring event include collection and analysis of the following QA/QC samples:

- Duplicate groundwater (two per quarter),
- Rinsate sample (two per quarter), and
- Trip blank (one per trip, a total of 4 this quarter).

The following discussion describes and how each of the QA/QC samples were collected.

The duplicate groundwater samples were collected from wells WCC-11S and WCC-3D for the second quarter 2000 sampling event. The same amount of containers were filled for the duplicate samples as for the primary samples. During collection the containers were filled in an alternating sequence between primary and duplicate. The duplicate samples were numbered WCC-11S-D-062200 and WCC-3D-D-062600. The duplicate samples were analyzed using the same methods as the primary samples.

The submersible pump was decontaminated by steam cleaning between uses. Two equipment blanks, or rinsate samples, were collected after two of the decontamination procedures were completed as a check on the effectiveness of the decontamination. The rinsate samples were prepared by pouring Reagent Grade II water, prepared by the analytical laboratory, over the pump and collecting the rinsate in 40-ml vials. For this

sampling event, the rinsate samples were collected after sampling and decontamination at wells BL-3 and WCC-6S, and they were numbered BL-3-R-062300 and WCC-6S-R-062600. The rinsate samples were analyzed using the same methods as the primary groundwater samples.

A total of four trip blank samples were analyzed as a check for the possible cross-contamination of samples during shipping from the site to the laboratory. The trip blanks consisted of two 40-ml vials that were filled with Reagent Grade II water and sealed by the laboratory. The vials remained unopened and were kept in the sample cooler during the field activities and sample shipment. The samples were numbered according to the first groundwater monitoring well sampled each day (thus: WCC-9S-B-062000, TMW-14-B-062100, WCC-10S-B-062200, and BL-2-B-062600). The trip blanks were submitted to the laboratory with the other samples and analyzed only for VOCs using EPA Method 8260.

### **3 FINDINGS**

The following sections present the findings of the second quarter 2000 groundwater monitoring event, including the results of laboratory testing and groundwater conditions at the site.

#### **3.1 Laboratory Results**

The concentrations of chemicals detected in the groundwater samples during the second quarter 2000 sampling event are summarized in Table 2. The complete laboratory reports, including chain-of-custody and laboratory QA/QC documentation, are included in Appendix B.

##### **3.1.1 Comparisons to Maximum Contaminant Levels**

The maximum contaminant levels (MCL) established by the California Department of Health Services were exceeded for 13 compounds in one or more groundwater monitoring wells, including:

- Benzene
- Chloroform
- Carbon Tetrachloride
- 1,1-Dichloroethane (1,1-DCA)
- 1,2-Dichloroethane (1,2-DCA)
- 1,1-Dichloroethene (1,1-DCE)
- cis-1,2-Dichloroethene (cis-1,2-DCE)
- trans-1,2-Dichloroethene (trans-1,2-DCE)
- Tetrachloroethene (PCE)
- Toluene
- 1,1,1-Trichlorethane (1,1,1-TCA)
- 1,1,2-Trichlorethane (1,1,2-TCA)
- Trichloroethene (TCE)

All of the wells except TMW-10 and TMW-16 contained at least one of these compounds in excess of an MCL in the second quarter 2000 monitoring.

### **3.1.2 Frequency of Occurrence**

Petroleum hydrocarbons, various VOCs, and selected metals were detected in many of the 30 samples collected during the second quarter 2000 event.

The most frequently detected VOCs were TCE (30 samples) and 1,1-DCE (22 samples). Other frequently detected VOCs included the related solvents cis-1,2-DCE (13 samples) and trans-1,2-DCE (six samples). Other constituents detected included the related solvents: 1,1,1-TCA (four samples); 1,1,2-TCA (three samples); 1,1-DCA (nine samples) and 1,2-DCA (two samples). Tetrachloroethene (seven samples), and carbon tetrachloride (three samples) were also detected. Two trihalomethanes were detected including chloroform (14 samples) and trichlorofluoromethane (1 sample).

Some of the groundwater samples also contained benzene, toluene, ethylbenzene, and xylenes (BTEX). Benzene was detected in three samples, and toluene was detected in six samples. Ethylbenzene and xylenes were each detected in only one sample.

Barium (30 samples), total chromium and chromium VI (23 samples and 8 samples, respectively), and zinc (18 samples) were frequently detected at the site. Other metals detected less frequently included vanadium (five samples), copper (three samples), and nickel (two samples).

### **3.1.3 Distribution and Concentration**

The spatial distributions of VOCs at the site are illustrated in Figure 3. TCE concentrations exceeded 10,000 µg/l at TMW-2, and DAC-P1. 1,1-DCE concentrations exceeded 10,000 µg/l at TMW-2 and WCC-3S. TCE and/or 1,1-DCE concentrations ranged between 1,000 and 10,000 µg/l in wells WCC-4S and 6S; BL-3; and TMW-3, 4, 5, 7, 8, and 9. TCE and/or 1,1-DCE concentrations ranged between 100 and 1,000 µg/l in wells WCC 3S, 7S, 10S, 11S, and 12S; BL-2; and TMW- 1, 4, 6, 7, and 12. The remaining wells contain less than 100 µg/l of both TCE and 1,1-DCE.

Benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in some of the wells along the east side of building 1, including WCC-3S, 3D, 6S, and TMW-2 and 8. The highest concentrations of benzene (380 µg/l) and toluene (48,000 µg/l) were detected at WCC-3S. WCC-6S had a lower concentration of benzene (43 µg/l) and toluene (4,700 µg/l). TMW-8 contained benzene at 23 µg/l. TMW-2 contained toluene at 480 µg/l. Individual BTEX components were detected at TMW-14 and TMW-16 at concentrations that were no greater than 6.2 µg/l.

### **3.1.4 QA/QC Laboratory Results**

Samples analyzed at the laboratory for quality control include two duplicate samples, two rinsate samples, and four trip blanks. The analytical results for these samples are summarized in Table 3 and are contained along with internal laboratory QA/QC results in the laboratory report (Appendix B).

During the second quarter 2000 sampling event, the duplicate samples were collected at WCC-11S and WCC-3D. The results of the duplicate samples are in reasonable agreement with the primary samples at both groundwater monitoring wells, indicating that the analytical

data are reliable. Analysis of the rinsate sample did not detect any of the VOCs present at the site. A trace concentration of copper (0.017 mg/l) was detected in one rinsate sample and zinc (0.029 and 0.021 mg/l) was detected in both rinsate samples. VOCs were not detected in any of the trip blanks; indicating that cross contamination among samples is not occurring in transport.

### **3.2 Groundwater Conditions**

The following sections discuss the physical characteristics of the groundwater during this monitoring event including elevations, gradient, and flow direction. Specific observations regarding field conditions noted at the time of sampling are also provided.

#### **3.2.1 Groundwater Elevations, Gradient and Flow Direction**

The depth to water was measured in each of the wells prior to purging and sampling. Static groundwater elevations were calculated based on the measured depths and surveyed reference points at the wells that are summarized on Table 4. Figure 4 shows the groundwater elevations at the wells, and groundwater contours based on these elevations. The data indicate that groundwater elevations ranged from a high of 12.88 feet below mean sea level (-12.88 ft MSL) at WWC-11S to a low of 14.97 feet below MSL (-14.97 ft MSL) at TMW-12. The groundwater contours show a generally southward sloping water table. Locally the direction of groundwater flow ranges from southwest to south to southeast. The contours also show a southeast-trending trough extending from TMW-1 toward WCC-10S. The average gradient across the site is 0.0007 ft/ft (0.7 ft/1000 ft). The gradient southeast of TMW-16 is approximately 0.0027 ft/ft (2.7 ft/1000 ft). These conditions are consistent with flow directions documented during previous quarterly monitoring events. On the average, water levels at the site declined by approximately 0.2 ft since the previous monitoring event in July of 1999.

#### **3.2.2 Field Observations**

Following are selected field observations that were made during purging and sampling the monitoring wells. These observations are based on information recorded on the purge and sample forms (Appendix A) at the time of sampling:

- Good recoveries were noted during purging in all the wells.
- During purging, the groundwater became clear in WCC-3S through 12S, WCC-3D, DAC-P1, BL-3, and TMW-3-6, 8, and 10-14. The groundwater was light yellow in BL-1, and 2, and TMW-1, 7, and 9; olive brown in TMW-15 and 16; and light greenish yellow in TMW-2.
- Odors were noted while purging at WCC-3S, WCC-6S and TMW-2. Laboratory results that detected high concentrations of solvents in wells are consistent with this field note. Odors were not noted at DAC-P1, however, where TCE concentrations are also high.

## **4 REFERENCES**

Woodward Clyde Consultants, 1990, Douglas Aircraft Company Torrance (C-6) Facility, Phase III Groundwater and Soil Investigation Report, March 1990.

Kennedy/Jenks Consultants, 1999, Boeing Realty Corporation's C-6 Facility, Los Angeles California, Installation of Temporary Monitoring Wells in Area of Buildings 1 and 2, October 1999.

Kennedy/Jenks Consultants, 2000, Boeing Realty Corporation's C-6 Facility, Los Angeles California, Installation of Temporary Monitoring Wells TMW-10 Through TMW-17 and 2<sup>nd</sup> Quarter (March/April 1999) Groundwater Monitoring Results April 2000.

## **TABLES**

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**TABLE 1**  
**MONITORING WELL CONSTRUCTION DETAILS**  
**BOEING REALTY CORPORATION, C-6 FACILITY**  
**LOS ANGELES, CALIFORNIA**  
**K/J 004016.00**

Well	Date Constructed	Well Diameter (inches)	Total Depth of Borehole (Feet)	Depth of Screened Interval (Feet)		Depth to top of Sand Filter Pack (Feet)	Well Casing Material and Slot Size	Hydrogeologic Unit Screened
				Top	Bottom			
WCC-3S <sup>1</sup>	10/26/87	4	92	69	89	64	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-4S <sup>1</sup>	10/27/87	4	91.5	70.5	90.5	65	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-5S <sup>1</sup>	11/24/87	4	91	60.5	91	58.5	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-6S <sup>2</sup>	9/22/89	4	91	60	90	N/A <sup>4</sup>	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-7S <sup>2</sup>	6/8/89	4	90.5	60	90	54	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-9S <sup>2</sup>	9/21/89	4	91.5	60	90	55	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-10S <sup>2</sup>	6/7/89	4	90.8	60	90	54	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-11S <sup>2</sup>	N/A	4	N/A	60	90	N/A	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-12S <sup>2</sup>	N/A	4	N/A	60	90	N/A	Schedule 40 PVC, 0.010-Inch Slots	Shallow
WCC-3D <sup>2</sup>	6/27/89	4	140	120	140	114	Schedule 40 PVC, 0.010-Inch Slots	Deeper
DAC-P1 <sup>1</sup>	9/25/89	4	N/A	60	90	N/A	Schedule 40 PVC, 0.010-Inch Slots	Shallow
BL-1 <sup>3</sup>	2/2/99	2	81.5	61.5	81.5	56.5	Schedule 40 PVC, 0.010-Inch Slots	Shallow
BL-2 <sup>3</sup>	2/3/99	2	81.5	61.5	81.5	56.5	Schedule 40 PVC, 0.010-Inch Slots	Shallow
BL-3 <sup>3</sup>	2/8/99	2	82	62	82	59	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-1	6/28/98	2	86	61	81	59	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-2	6/28/98	2	87	62	82	57	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-3	7/21/98	2	87	62.5	82.5	60	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-4	6/30/98	2	86	60	80	58	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-5	7/2/98	2	86	61.3	81.3	58.9	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-6	7/1/98	2	86	61.2	81.2	59.1	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-7	6/29/98	2	89.5	64	84	62	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-8	6/29/98	2	89.5	61	81	59	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-9	6/30/98	2	86	61	81	59	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-10	1/28/99	2	85	60.5	80.5	57.6	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-11	2/1/99	2	83	58	78	54.5	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-12	1/27/99	2	88	62	82	59.3	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-13	2/2/99	2	85	60	80	58	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-14	2/3/99	2	90	65	85	63	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-15	2/4/99	2	92	62	87	60	Schedule 40 PVC, 0.010-Inch Slots	Shallow
TMW-16	1/29/99	2	82.5	56.5	76.5	54.5	Schedule 40 PVC, 0.010-Inch Slots	Shallow

**NOTES:**

1. Data from Woodward-Clyde Consultants Phase II Report, May 1988
2. Data from Woodward-Clyde Consultants Phase III Report, March 1990
3. Data from Integrated Environmental Services, April 2000
4. N/A = Not Available.

TABLE 2  
SUMMARY OF ORGANIC COMPOUNDS AND METALS IN GROUNDWATER, JUNE 2000

Boeing Realty Corporation, C-6 Facility  
Los Angeles, California  
KJU 004016.00

Well	Sample Date	EPA 8260												EPA 6010	EPA 7196	EPA 6010												
		µg/L												mg/L														
		Detection Limit <sup>1</sup>	Benzene	Carbon Tetrachloride	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	trans-1,2-DCE	Ethylbenzene	PCE	Toluene	1,1,1-TCA	TCE	cis-1,2-DCE	Total Xylenes	TCFM	DCFm	Barium	Chromium (VI) <sup>3</sup>	Chromium (total)	Copper	Nickel	Vanadium	Zinc			
WCC-3S	7/16/99	250	380			780		32,000	1000			54,000	2,700		810	8,600			0.26						0.025			
	6/26/00	125	380			630		25,000	840			48,000	2,400		770	7,600			0.32						0.024			
WCC-4S	7/14/99	10						2,100	19						1,500	12			0.28						0.013			
	6/21/00	10						1,800							1,300				0.33	0.012	0.012							
WCC-5S	7/15/99	0.5						14							2.3				0.24						0.017			
	6/22/00	0.5						9							2.7				0.24						0.024			
WCC-6S	7/16/99	50				94		7,300	130			860	390		3,000	1,000			0.14						0.017			
	6/26/00	25	43			76		5,300	91			4,700	1,600		1,500	2,000			0.19						0.012			
WCC-7S	7/14/99	1.0				0.67	1.1		190						120	9.3			0.082		0.014				0.013			
	6/22/00	0.5													1.7	170	1.1		0.180	0.012	0.013				0.011			
WCC-9S	7/13/99	0.5				24			12						56	2.2		0.19			0.25					0.025		
	6/20/00	0.5				49			14						78				0.25		0.013							
WCC-10S	7/14/99	1.0				1.3	2.8	0.94							1.2	200	1.3			0.18		0.012				0.012		
	6/22/00	0.5						34							3.0				0.029		0.012							
WCC-11S	7/14/99	0.5				1.1	2.8		38						3.1				0.029		0.011					0.013		
	6/22/00	0.5				0.58			25										0.083		0.015					0.020		
WCC-12S	7/13/99	0.5				1.9	20		49						0.63				0.10		0.012					0.011		
	6/21/00	0.5				2.8	24		47						1.0				0.12		0.013							
WCC-3D	7/16/99	0.5						4.7							1.7	6.4			0.093							0.014		
	6/26/00	0.5						54							37	50.0			0.082							0.027		
DAC-P1	7/16/99	125															18,000			0.10	0.24	0.29				0.016		
	6/26/00	50															14,000	79		0.12	0.28	0.35						
BL-1	6/26/00	0.5						0.85										3.1	20							0.018		
BL-2	6/26/00	5																940								0.011		
BL-3	6/23/00	13													59				1,300							0.030		
TMW-1	7/15/99	2.5						600										340		14	0.24	0.042	0.042			0.020		
	6/23/00	2.5						340										350		19	0.28	0.056				0.010		
TMW-2	7/16/99	125						280	1,900								2,700			32,000	1,000		0.38	0.12	0.12		0.040	
	6/26/00	100						230	1,400								480	1,900			28,000	850		0.39	-0.35			0.031
TMW-3	7/15/99	50							340									7,800								0.12		
	6/22/00	10							96									3,500	12							0.11		
																										0.036		

TABLE 2  
SUMMARY OF ORGANIC COMPOUNDS AND METALS IN GROUNDWATER, JUNE 2000

Boeing Realty Corporation, C-6 Facility  
Los Angeles, California  
KJ 004016.00

Well	Sample Date	EPA 8260														EPA 6010	EPA 7196	EPA 6010									
		$\mu\text{g/L}$														$\text{mg/L}$											
		Detection Limit <sup>1</sup>	Benzene	Carbon Tetrachloride	Chloroform	1,1-DCA	1,2-DCA	1,1-DCE	trans-1,2-DCE	Ethylbenzene	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	cis-1,2-DCE	Total Xylenes	TCFM	DCFm	Barium	Chromium (VI) <sup>3</sup>	Chromium (total)	Copper	Nickel	Vanadium	Zinc	
TMW-4	7/15/99	10				42	23	2,500	64						2,500	77				0.120	0.020	0.025				0.016	
	6/22/00	5				17	22	15	890	27					11	1,700	39										
TMW-5	7/14/99	50						710								4,300				0.055	0.015					0.014	
	6/22/00	13						650								4,100				0.067	0.021					0.013	
TMW-6	7/15/99	2.5				560				8.6						130					0.024	0.024					0.028
	6/22/00	2.5				100										540				0.200	0.021						
TMW-7	7/15/99	13	13		13	36	18	2,100	57							2,500	69			0.11	0.016					0.045	
	6/23/00	10						850	24							2,000	34			0.19	0.047	0.017	0.015	0.03	0.120		
TMW-8	7/15/99	13	27		16	52	19	3,500	74							13	3,000	92			0.088						0.022
	6/23/00	13	23			45	22	2,300	56							13	2,900	81			0.10						0.035
TMW-9	7/14/99	5.0						290									1,200				0.11	0.024	0.024				0.019
	6/23/00	5.0						220									1,000				0.14	0.033					0.028
TMW-10	7/13/99	0.5				4.9		0.58			1.3						4.4		0.80	2.3	0.16	0.019					0.024
	6/20/00	0.5				4.7		1.0									4.1				0.14	0.014					
TMW-11	7/13/99	1.3		1.7	450			1.5		1.7							23				0.39	0.014					0.023
	6/20/00	2.5			740												47				0.41	0.013					
TMW-12	7/13/99	10			2,800			32									760				0.29						0.026
	6/21/00	10			2,100			25									440				0.34						
TMW-13	7/13/99	0.5			4.5	29		0.6			5.6						120				0.18						0.015
	6/21/00	0.5			2.9	14					2.9						97				0.13	0.011					
TMW-14	7/13/99	0.5			2.9	4.4					1.8						13				0.17	0.012					0.015
	6/21/00	0.5			1.8	5.8					0.57	1.0	1.3				10		1.8		0.19	0.017	0.015				
TMW-15	7/13/99	0.5				11		1.5									39				0.085	0.011				0.018	0.026
	6/22/00	0.5				11		1.7									35				0.076	0.017					0.037
TMW-16	7/16/99	0.5						2.7				0.98		2.1	6.2			2.7			0.072	0.023		0.010			0.042
	6/26/00	0.5															2.9				0.100	0.058	0.012	0.016	0.025	0.066	

Table Notes:

Blank cell indicates constituent result was below the detection limit.

Shaded cell indicates sample was not tested for the given constituent.

1. Detection limits varied between well samples for volatile organics analyses.

2. Detection limits were consistent between well samples for metals analyses.

Table shows only compounds that were detected at least once in the groundwater samples.

Table Key:

BDCM	Bromodichloromethane	TCA	Trichloroethane
CDBM	Chlorodibromomethane	TCE	Trichloroethylene
DCA	Dichloroethane	TCFM	Trichlorofluoromethane
DCE	Dichloroethene	DCFm	Dichlorofluoromethane
PCE	Tetrachloroethene		

TABLE 3  
SUMMARY OF QUALITY CONTROL RESULTS, JUNE 2000

Boeing Realty Corporation, C-6 Facility  
Los Angeles, California  
KJ 004016.00

Sample Number	Sample Description	Sample Date	Detection Limit <sup>1</sup>	EPA 8260												EPA 6010	EPA 7196	EPA 6010									
				µg/L															mg/L								
				Benzene	Carbon Tetrachloride	Chloroform	1,1-DCA	1,2,DCA	1,1-DCE	trans-1,2-DCE	Ethylbenzene	PCE	Toluene	1,1,1-TCA	1,1,2-TCA	TCE	cis-1,2-DCE	Total Xylenes	TCFM	DCFM	Barium	Chromium (VI) <sup>3</sup>	Copper	Nickel	Vanadium	Zinc	
WCC-11S-W-062200	WCC-11S primary	6/22/00	0.5			0.58			25						110	12					0.083	0.015				0.020	
WCC-11S-D-062200	WCC-11S duplicate	6/22/00	0.5						24						110	11					0.083	0.015				0.027	
WCC-3D-W-062600	WCC-3D primary	6/26/00	0.5						54					37	50	9.9	2.1					0.082					0.013
WCC-3D-D-062600	WCC-3D duplicate	6/26/00	0.5						68					42	54	11	2.1					0.082					0.029
BL-3-R-062300	Rinsate	6/23/00	0.5																					0.017			0.021
WCC-6S-R-062600	Rinsate	6/26/00	0.5																								
WCC-9S-B-062000	Trip Blank	6/20/00	0.5																								
TMV-14-B-062100	Trip Blank	6/21/00	0.5																								
WCC-10S-B-062200	Trip Blank	6/22/00	0.5																								
BL-2-B-062600	Trip Blank	6/26/00	0.5																								

Table Notes:

Blank cell indicates constituent result was below the detection limit.

Shaded cell indicates sample was not tested for the given constituent.

1. Detection limits varied between well samples for volatile organics analyses.

2. Detection limits were consistent between well samples for metals analyses.

Table shows only compounds that were detected at least once in the primary groundwater samples.

Table Key:

BDCM	Bromodichloromethane	TCA	Trichloroethane
CDBM	Chlorodibromomethane	TCE	Trichloroethene
DCA	Dichloroethane	TCFM	Trichlorofluoromethane
DCE	Dichloroethene	DCFM	Dichlorofluoromethane
PCE	Tetrachloroethene		

**TABLE 4**  
**SUMMARY OF GROUNDWATER ELEVATION DATA, JUNE 2000**

**BOEING REALTY CORPORATION, C-6 FACILITY**  
**LOS ANGELES, CALIFORNIA**  
**K/J 004016.00**

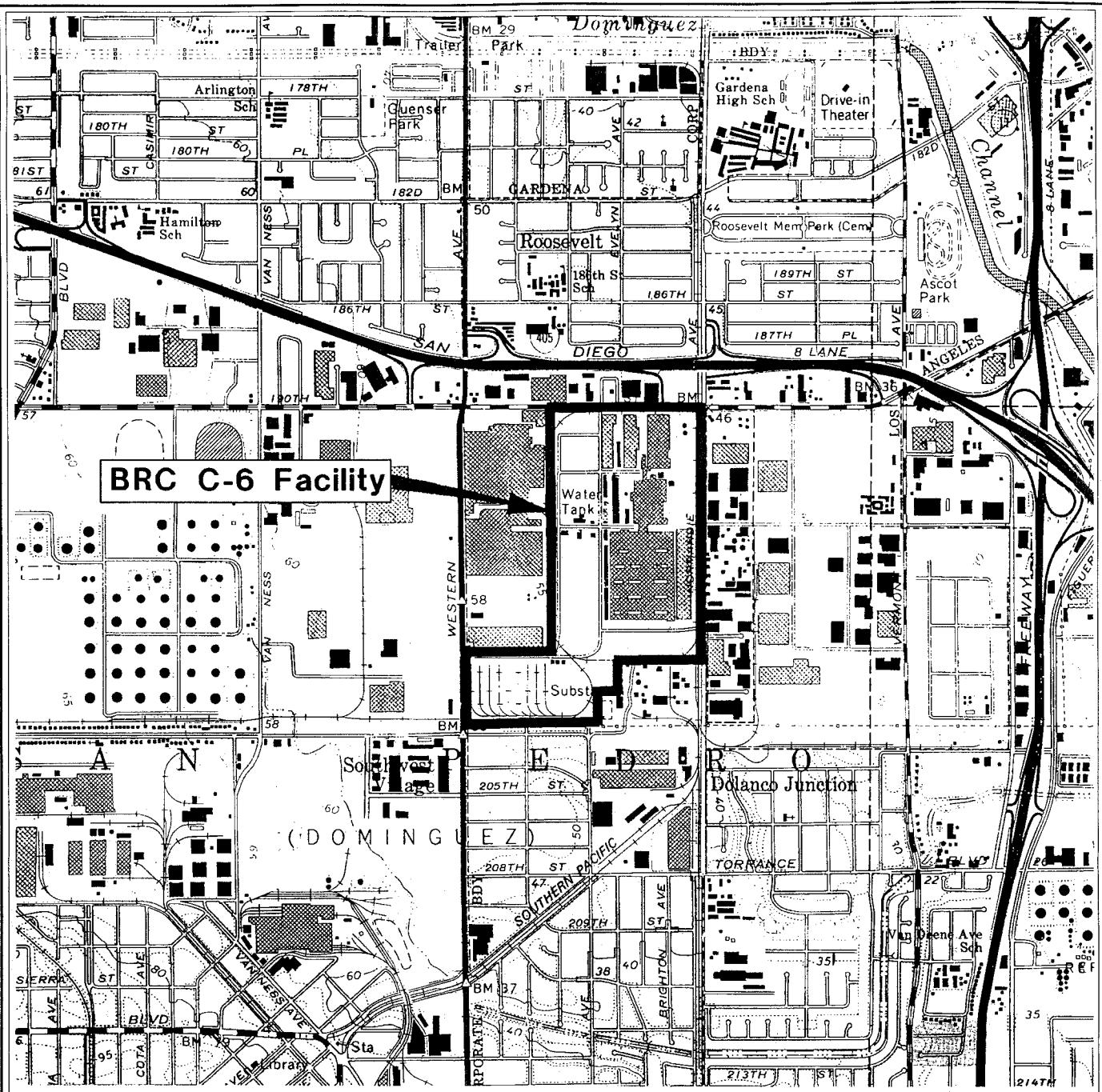
Well	Reference Point <sup>1</sup> Elevation (Feet Above MSL)	June 20-26, 2000	
		Depth <sup>2</sup>	Elevation
WCC-3S	51.16	64.63	-13.47
WCC-4S	49.65	63.16	-13.51
WCC-5S	48.84	62.30	-13.46
WCC-6S	51.32	64.98	-13.66
WCC-7S	50.23	63.90	-13.67
WCC-9S	46.93	60.63	-13.70
WCC-10S	58.17	71.30	-13.13
WCC-11S	51.37	64.25	-12.88
WCC-12S	46.93	60.78	-13.85
WCC-3D	51.16	64.86	-13.70
DAC-P1	58.85	71.86	-13.01
BL-1	58.34	71.20	-12.86
BL-2	58.15	71.66	-13.51
BL-3	59.33	73.58	-14.25
TMW-1	51.24	64.89	-13.65
TMW-2	51.18	64.64	-13.46
TMW-3	51.07	65.19	-14.12
TMW-4	50.35	64.61	-14.26
TMW-5	50.12	64.67	-14.55
TMW-6	50.13	64.59	-14.46
TMW-7	51.12	65.15	-14.03
TMW-8	51.06	64.98	-13.92
TMW-9	51.21	65.22	-14.01
TMW-10	47.52	61.57	-14.05
TMW-11	47.47	62.10	-14.63
TMW-12	50.85	65.82	-14.97
TMW-13	50.91	65.82	-14.91
TMW-14	58.21	72.96	-14.75
TMW-15	55.26	69.30	-14.04
TMW-16	50.91	63.77	-12.86

Notes:

1. Reference point is north side, top of well casing
2. Depth in feet below reference point.

## **FIGURES**

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Source: Basemap modified from  
U.S.G.S. Torrance, California  
7.5 Minute Quadrangle  
Photorevised 1981

0      2000      4000  
  
 Approximate Scale in Feet

Kennedy/Jenks Consultants

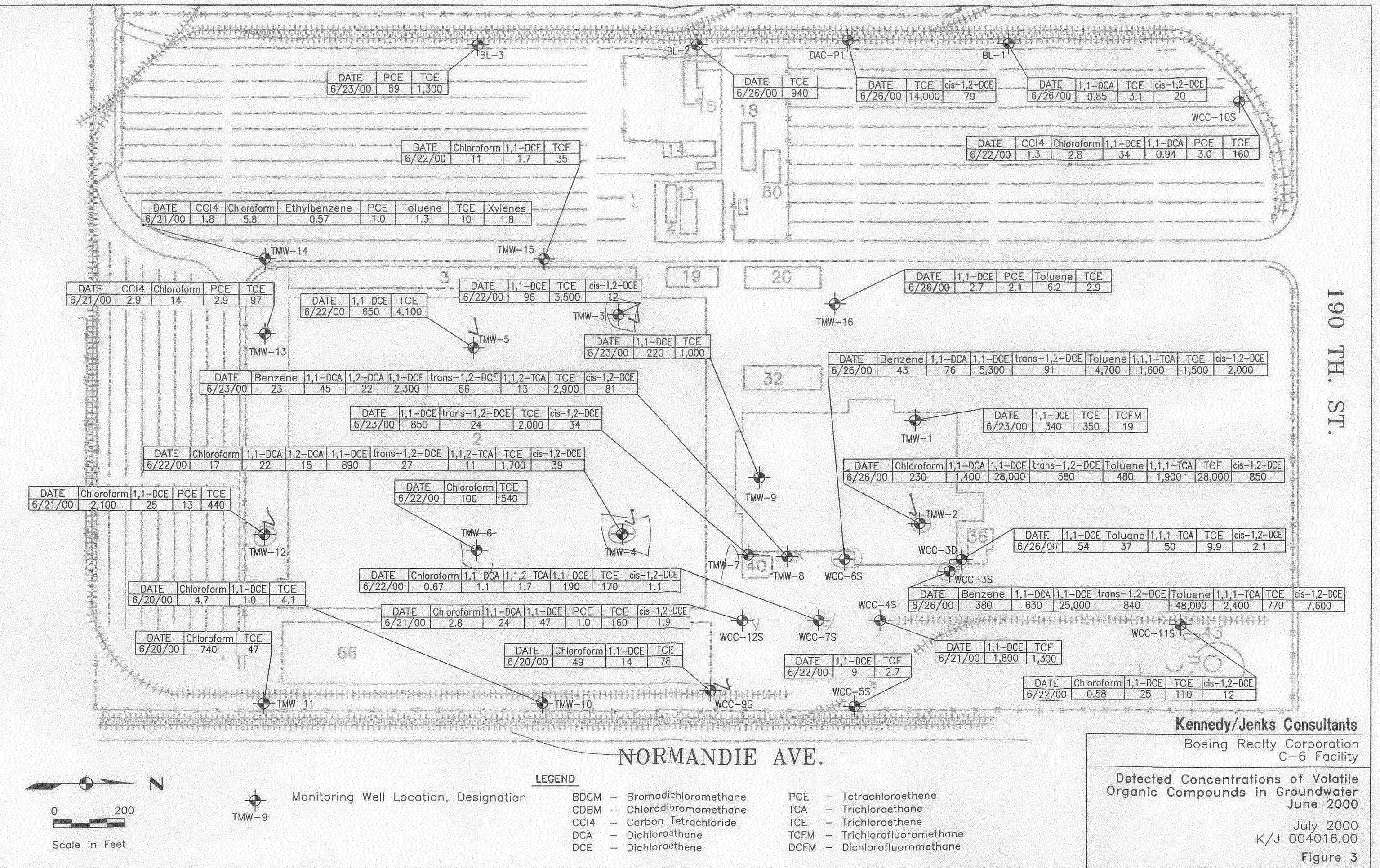
**Boeing Realty Corporation  
C-6 Facility**

## Site Location Map

July 2000  
K/J 004016.00

Figure 1

190 TH. ST.



190 TH. ST.

Kennedy/Jenks Consultants

Boeing Realty Corporation  
C-6 Facility

Monitoring Well Locations

July 2000  
K/J 004016.00  
Figure 2

NORMANDIE AVE.

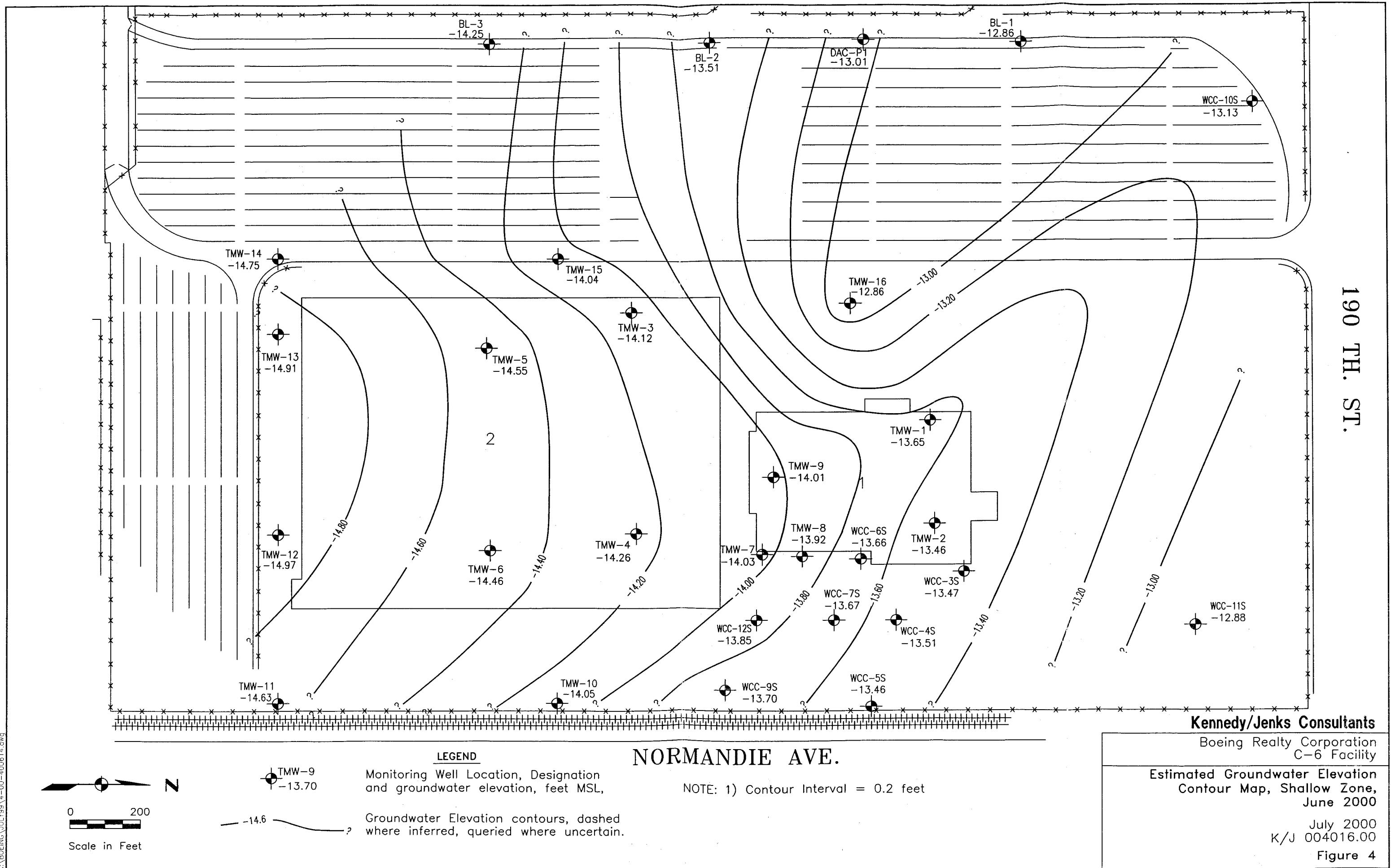
LEGEND

Monitoring Well Location, Designation

TMW-9

0 200

Scale in Feet



K:\BOEING\ULLY99\4-00-400614.dwg

BOF-C6-0066341

## **APPENDIX A**

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### **GROUNDWATER PURGE AND SAMPLE FORMS**

## Groundwater Purge and Sample Form

Date: 6-20-00

Kennedy/Jenks Consultants

PROJECT NAME:	<u>Boeing C-6</u>	WELL NUMBER:	<u>WCC-95</u>
PROJECT NUMBER:	<u>004016.00</u>	PERSONNEL:	<u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT):	<u>60.63</u>	MEASURING POINT DESCRIPTION:	<u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD:	<u>Electric Probe</u>	PURGE METHOD:	<u>Bentley Ready Flow -2</u>
TIME START PURGE:	<u>1336</u>	PURGE DEPTH (FT)	<u>75'</u>
TIME END PURGE:	<u>1402</u>		
TIME SAMPLED:	<u>1410</u>		
COMMENTS:	<u>Sample # WCC-95-W062000</u>		

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 55$ CASING VOLUME (GAL)
						2	4	6	
						0.16	0.64	1.44	
	<u>89.35</u>	<u>60.63</u>	=	<u>28.72</u>	X				<u>18.38</u>

TIME	1340	1345	1354	1402					
VOLUME PURGED (GAL)	8	19	40	55					
PURGE RATE (GPM)	1.6	1.6	1.6	1.6					
TEMPERATURE (°C)	75.5	73.9	73.6	74.7					
pH	6.89	6.76	6.63	6.57					
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1570.	1581.	1573.	1580.					
DISSOLVED OXYGEN (mg/L)									
eH(MV)Pt-AgCl ref.									
TURBIDITY/COLOR	Clear	Clear	Clear	Clear					
ODOR	No	No	No	No					
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'	75'					
DEPTH TO WATER DURING PURGE (FT)	61.43	61.45	61.50	61.52					
NUMBER OF CASING VOLUMES REMOVED									
DEWATERED?									

## Groundwater Purge and Sample Form

Date: 6-20-00

Kennedy/Jenks Consultants

PROJECT NAME: <u>Boeing C-6</u>					WELL NUMBER: <u>WCC-95</u>					
PROJECT NUMBER: <u>004016.00</u>					PERSONNEL: <u>Shane Scrimshire</u>					
SAMPLE DATA:										
TIME SAMPLED: <u>140</u>					COMMENTS: _____					
DEPTH SAMPLED (FT): <u>75</u>					_____					
SAMPLING EQUIPMENT: <u>Redi-Flow 2</u>					_____					
SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-95- W062000	2 2	UOA Plastics	HCl HNO <sub>3</sub>	— —	50 mL 1250 mL	— —	Clear Clear	Yes Yes	See C.O.C.	_____
PURGE WATER DISPOSAL NOTES:										
TOTAL DISCHARGE (GAL): <u>55</u>					COMMENTS: _____					
DISPOSAL METHOD: <u>Drum Storage</u>					_____					
DRUM DESIGNATION(S)/VOLUME PER (GAL): <u>1 drum</u>					_____					
WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):										
WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: <input checked="" type="radio"/> YES <input type="radio"/> NO										
INSIDE OF WELL HEAD AND OUTER CASING DRY?: <input checked="" type="radio"/> YES <input type="radio"/> NO										
WELL CASING OK?: <input checked="" type="radio"/> YES <input type="radio"/> NO										
COMMENTS: _____ _____										
GENERAL:										
WEATHER CONDITIONS: <u>Clear</u>										
TEMPERATURE (SPECIFY °C OR °F): <u>80°F</u>										
PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? <u>No</u>										
cc: Project Manager: <u>RJS Purcell</u> Job File: _____ Other: _____										

## Groundwater Purge and Sample Form

Date: 6-20-00

Kennedy/Jenks Consultants

PROJECT NAME:	Racing C-6	WELL NUMBER:	TMW-11
PROJECT NUMBER:	004016.00	PERSONNEL:	Shane Scrimshire
STATIC WATER LEVEL (FT):	62.10	MEASURING POINT DESCRIPTION:	Top of Casing
WATER LEVEL MEASUREMENT METHOD:	Electric Probe	PURGE METHOD:	Radial Flow 2
TIME START PURGE:	1450	PURGE DEPTH (FT)	75'
TIME END PURGE:	1505		
TIME SAMPLED:	1510		
COMMENTS:	Sample # TMW-11-W062000		

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	-	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 7.8$ CASING VOLUME (GAL)
							2	4	6	
							0.16	0.64	1.44	
	78.45		62.10		16.30					2.60

TIME	1455	1500	1505							
VOLUME PURGED (GAL)	2	6	10							
PURGE RATE (GPM)	.5	.5	.5							
TEMPERATURE (°C)	75.6	75.2	74.8							
pH	6.68	6.59	6.64							
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	2130.	2190.	2180.							
DISSOLVED OXYGEN (mg/L)										
eH(MV)Pt-AgCl ref.										
TURBIDITY/COLOR	light olive brown	light olive brown	clear							
ODOR	NO	NO	NO							
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'							
DEPTH TO WATER DURING PURGE (FT)										
NUMBER OF CASING VOLUMES REMOVED										
DEWATERED?										

## Groundwater Purge and Sample Form

Date: 6-20-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-11

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1510 COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-11- W062000	2	VOR	HCL		80ml					
	2	Plastic	HNO3	NO	1250 ml	—	Clear	Yes	See C.O.C.	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 10 gal. COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): Drum shared with TMW-10, 12 + 13.

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-20-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6	WELL NUMBER: TMW-10
PROJECT NUMBER: 004016.00	PERSONNEL: Shane Scrimshire
STATIC WATER LEVEL (FT): 61.57	MEASURING POINT DESCRIPTION: Top of Casing
WATER LEVEL MEASUREMENT METHOD: Electric Probe	PURGE METHOD: Rodi - Flow 2
TIME START PURGE: 1542	PURGE DEPTH (FT)
TIME END PURGE: 1600 Sampled	
TIME SAMPLED: 1540 - Re-calibrated pH probe.	
COMMENTS: Sample # TMW-10-20062000	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 7.86$ CASING VOLUME (GAL)
					2	4	6	
					0.16	0.64	1.44	
	78.00	61.57	=	16.43				2.62

TIME	1548	1552	1555					
VOLUME PURGED (GAL)	3 gal.	7 gal.	10 gal.					
PURGE RATE (GPM)	.5	.5	.5					
TEMPERATURE (°C)	75.7	75.9	75.8					
pH	7.72	7.89	7.91					
SPECIFIC CONDUCTIVITY (micromhos/cm)	1544.	1524.	1523.					
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	U.U. light Yellow	Clear	Clear					
ODOR	NO	NO	NO					
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'					
DEPTH TO WATER DURING PURGE (FT)								
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

## Groundwater Purge and Sample Form

Date: 6-20-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-10

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

## SAMPLE DATA:

TIME SAMPLED: 1540

COMMENTS:

DEPTH SAMPLED (FT): 75

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-10 W062000	2	VOA	HCL		80 mL					
	2	Plastic	HNO3	NO	1250mL	—	Clear	Yes	See G.O.C.	

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 10 gal,

COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS:

## GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Russ Purcell

Job File:

Other:

## Groundwater Purge and Sample Form

Date: 6-21-00

Kennedy/Jenks Consultants

PROJECT NAME:	<u>Boeing C-6</u>	WELL NUMBER:	<u>WCC-125</u>
PROJECT NUMBER:	<u>004016.00</u>	PERSONNEL:	<u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT):	<u>60.78</u>	MEASURING POINT DESCRIPTION:	<u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD:	<u>Electric Probe</u>	PURGE METHOD:	<u>Red. - Flow 2</u>
TIME START PURGE:	<u>0842</u>	PURGE DEPTH (FT)	<u>75'</u>
TIME END PURGE:	<u>0908</u>		
TIME SAMPLED:	<u>0915</u>		
COMMENTS:	<u>Sample # WCC-125-W062100</u>		

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 57$ CASING VOLUME (GAL)
				2	4	6	
				0.16	0.64	1.44	
	90.30	60.78	29.52				18.89

TIME	0852	0900	0908				
VOLUME PURGED (GAL)	20	40	58				
PURGE RATE (GPM)	3	3	3				
TEMPERATURE (°C)	73.4	73.3	73.4				
pH	7.54	7.44	7.47				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1310.	1291.	1275.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	Clear	Clear	Clear				
ODOR	No	No	No				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 6-21-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6WELL NUMBER: WCC-12 SPROJECT NUMBER: 004016.00PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 0915

COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 75'SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-12 S	2	VOA	HCL		80 ml					
W063100	2	Plastic	HNO3	NO	1250 ml	—	Clear	Yes	See C.O.C.	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 58 gal.

COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum StorageDRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum, excess water shared with TMW-14 + 15WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 70°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NOcc: Project Manager: Rus Purcell

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-21-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-12

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.82

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Electronic purge

PURGE METHOD: Radi-Flow 2

TIME START PURGE: 0945

PURGE DEPTH (FT) 75'

TIME END PURGE: 0956

TIME SAMPLED: 1000

COMMENTS: Sample # TMW-12-W062100

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 7.5$ CASING VOLUME (GAL)
				2	4	6	
				0.16	0.64	1.44	
	81.30	65.68	15.62				2.5

TIME	0949	0953	0956				
VOLUME PURGED (GAL)	2.5 gal.	5 gal.	8 gal.				
PURGE RATE (GPM)	.75	.75	.75				
TEMPERATURE (°C)	74.3	75.0	75.1				
pH	7.25	7.13	7.10				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1,765.	1,763.	1,770.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	light olive brown	Clear	Clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 6-21-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6					WELL NUMBER: TMW-12					
PROJECT NUMBER: 004016.00					PERSONNEL: Shana Sorenshire					
<b>SAMPLE DATA:</b>										
TIME SAMPLED: 1000					COMMENTS: _____					
DEPTH SAMPLED (FT): 75					_____					
SAMPLING EQUIPMENT: Radi-Flow 2										
SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-12-W062100	2	JDA	HCL	ALL	80 ml	—	Clear	Yes	SOC C.O.C.	_____
<b>PURGE WATER DISPOSAL NOTES:</b>										
TOTAL DISCHARGE (GAL): 8 gal.					COMMENTS: _____					
DISPOSAL METHOD: Drum Storage										
DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum shared with other TMW wells (13+6)										
<b>WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):</b>										
WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: <input checked="" type="checkbox"/> YES NO										
INSIDE OF WELL HEAD AND OUTER CASING DRY?: <input checked="" type="checkbox"/> YES NO										
WELL CASING OK?: <input checked="" type="checkbox"/> YES NO										
COMMENTS: _____										
<b>GENERAL:</b>										
WEATHER CONDITIONS: Clear										
TEMPERATURE (SPECIFY °C OR °F): 75°F										
PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No										
cc: Project Manager: Russ Purcell										
Job File: _____										
Other: _____										

## Groundwater Purge and Sample Form

Date: 6-21-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-13

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.82

MEASURING POINT DESCRIPTION: top of casing

WATER LEVEL MEASUREMENT METHOD: Electronic Probe

PURGE METHOD: Radi-Flo 2

TIME START PURGE: 1042

PURGE DEPTH (FT) 75'

TIME END PURGE: 1051

TIME SAMPLED: 1056

COMMENTS: Sample # TMW-13-W062100

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 6.4$ CASING VOLUME (GAL)
							2	4	6	
	79.15		65.82		13.33		0.16	0.64	1.44	2.13

TIME	1046	1049	1051						
VOLUME PURGED (GAL)	3 gal.	5 gal.	7 gal.						
PURGE RATE (GPM)	.5	.5	.5						
TEMPERATURE (°C)	74.0	74.1	74.0						
pH	7.13	7.12	7.10						
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1581.	1587.	1586.						
DISSOLVED OXYGEN (mg/L)									
eH(MV)Pt-AgCl ref.									
TURBIDITY/COLOR	light, olive tan	light yellow	clear						
ODOR	NO	NO	NO						
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'						
DEPTH TO WATER DURING PURGE (FT)									
NUMBER OF CASING VOLUMES REMOVED									
DEWATERED?									

## Groundwater Purge and Sample Form

Date: 6-21-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6WELL NUMBER: TMW-13PROJECT NUMBER: 004016.00PERSONNEL: Stark ScrimshireSAMPLE DATA:TIME SAMPLED: 1056

COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 75SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-13- W062100	2	VOA	HCL		80 ml					
	2	Plastic	HNO3	NO	1250 ml	—	Clear	Yes	See C.O.C.	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 7

COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum StorageDRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum shared with TMW-12 + TMW-6WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 78°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: Rus Purcell

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-21-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-14

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 72.96

MEASURING POINT DESCRIPTION: top of casing

WATER LEVEL MEASUREMENT METHOD: Electronic sounder

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1417

PURGE DEPTH (FT) 85'

TIME END PURGE: 1459

1505

TIME SAMPLED: 1430

COMMENTS: Sample # TMW-14-W062100

Generator died at 1421, 1452, repaired gen. + resumed purge.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			Casing Volume (Gal)
							2	4	6	
							0.16	0.64	1.44	
	688.30		72.96		15.34					2.25

TIME	1420	1453 1455	1455 1455	1459					
VOLUME PURGED (GAL)	2.5 gal.	5 gal.	7 gal.	9 gal.					
PURGE RATE (GPM)	.5	.5	.5	.5					
TEMPERATURE (°C)	74.6	73.9	74.1	73.8					
pH	7.42	7.21	7.19	7.19					
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2030.	2210.	3230.	2240.					
DISSOLVED OXYGEN (mg/L)									
eH(MV)Pt-AgCl ref.									
TURBIDITY/COLOR	light yellow	light yellow	clear	clear					
ODOR	NO	NO	NO	NO					
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'	85'					
DEPTH TO WATER DURING PURGE (FT)									
NUMBER OF CASING VOLUMES REMOVED									
DEWATERED?									

## Groundwater Purge and Sample Form

Date: 6-21-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-14

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

## SAMPLE DATA:

TIME SAMPLED: 1505

COMMENTS:

DEPTH SAMPLED (FT): 85

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-14- W062100	2	VOA Plastic	HCL HNO3	NO	80 ml 1250 ml	—	clear	YES	See C.O.C.	

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 9 gal. COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum shared with

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES NO

INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES NO

WELL CASING OK?: YES NO

COMMENTS:

## GENERAL:

WEATHER CONDITIONS:

TEMPERATURE (SPECIFY °C OR °F):

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING?

cc: Project Manager:

Job File:

Other:

## Groundwater Purge and Sample Form

Date: 6-21-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: WCC-4S

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.16

MEASURING POINT DESCRIPTION: top of casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1635

PURGE DEPTH (FT) 75'

TIME END PURGE: 1653

TIME SAMPLED: 1658

COMMENTS: Sample # WCC-4S-W062100

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 35$ CASING VOLUME (GAL)
					2	4	6	
					0.16	0.64	1.44	
	89.70	63.16	=	16.54				10.58

TIME	1640	1645	1650	1653				
VOLUME PURGED (GAL)	11	22	35	43				
PURGE RATE (GPM)	2	2	2	2				
TEMPERATURE (°C)	79.7	75.7	74.6	74.6				
pH	7.62	7.44	7.31	7.30				
SPECIFIC CONDUCTIVITY (micromhos/cm) (uncorrected)	2050.	2000.	1940.	1930.				
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	Clear	Clear	Clear	Clear				
ODOR	No	No	No	No				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)	63.90	63.92	63.94	63.95				
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

## Groundwater Purge and Sample Form

Date: 6-21-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: WCC-4S

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1658

COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-4S- W062100	2	VOA Plastic	HCL HNO3	NO	80 mL 1250mL	—	Clear	Yes	See C.O.C.	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 43

COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): \_\_\_\_\_

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-15

PROJECT NUMBER: 004016.00

PERSONNEL: Shaw Scrimshire

STATIC WATER LEVEL (FT): 69.30

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Rodi-Flow 2

TIME START PURGE: 0748

PURGE DEPTH (FT) 75'

TIME END PURGE: 0800

TIME SAMPLED: 0805

COMMENTS: Sample # TMW-15-W062200

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 9$ CASING VOLUME (GAL)
				2	4	6	
				0.16	0.64	1.44	
	87.85	69.30	18.35				2.93

TIME	0751	0755	0758	0800			
VOLUME PURGED (GAL)	3 gal.	7 gal.	10 gal.	12 gal.			
PURGE RATE (GPM)	1	1	1	1			
TEMPERATURE (°C)	73.7	74.4	74.5	74.5			
pH	7.69	7.49	7.48	7.47			
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	745.	685.	935.	940.			
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	olive brown	olive brown	olive brown	olive brown			
ODOR	NO	NO	NO	NO			
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'	75'			
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6WELL NUMBER: TMW-15PROJECT NUMBER: 004016.00PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 0805 COMMENTS: \_\_\_\_\_DEPTH SAMPLED (FT): 75' \_\_\_\_\_SAMPLING EQUIPMENT: Redi-Flow 2 \_\_\_\_\_

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-15- W062200	2	WQA Plastic	HCL HNO <sub>3</sub>	NO	80 mL 1250 mL	—	olive brown	YES	See C.O.C.	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 12 gal. COMMENTS: \_\_\_\_\_DISPOSAL METHOD: Drum Storage \_\_\_\_\_

DRUM DESIGNATION(S)/VOLUME PER (GAL): \_\_\_\_\_

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 70°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: RWS Purcell

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: WCC-75

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.90

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Electronic Probe

PURGE METHOD: Radial Flow 2

TIME START PURGE: 0831

PURGE DEPTH (FT) 75'

TIME END PURGE: 0856

TIME SAMPLED: 0900

COMMENTS: Sample # WCC-75-W062200

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 53$ CASING VOLUME (GAL)
						2	4	6	
						0.16	0.64	1.44	
	90.35		63.90		27.45				17.6

TIME	0837	0846	0856						
VOLUME PURGED (GAL)	18 gal	35 gal	55 gal						
PURGE RATE (GPM)	2	2	2						
TEMPERATURE (°C)	73.4	73.5	72.9						
pH	7.14	7.05	7.01						
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1689.	1598.	1593.						
DISSOLVED OXYGEN (mg/L)									
eH(MV)Pt-AgCl ref.									
TURBIDITY/COLOR	Clear	Clear	Clear						
ODOR	No	No	No						
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'						
DEPTH TO WATER DURING PURGE (FT)	64.45	64.55	64.58						
NUMBER OF CASING VOLUMES REMOVED									
DEWATERED?									

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6WELL NUMBER: WCC-75PROJECT NUMBER: 004016.00PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 0900

COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 75'SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-75-2	2	VOA	HCL		80 ml					
W062200	2	Plastic	HNO <sub>3</sub>	NO	1250 ml	—	Clear	Yes	See C.O.C.	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 55

COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum StorageDRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drumWELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES  NO INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES  NO WELL CASING OK?: YES  NO COMMENTS: Well plug doesn't seal. Well head is threaded + plug won't open large enough to close the gap. Threads can be plugged with a coupler without changing well elevation.GENERAL:WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 75°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: Rus Purcell

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: WCC-55

PROJECT NUMBER: 004016.00

PERSONNEL: Strong Scrimshire

STATIC WATER LEVEL (FT): 62.30

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Radi-Flow 2

TIME START PURGE: 0941

PURGE DEPTH (FT) 75'

TIME END PURGE: 1002

TIME SAMPLED: 1006

COMMENTS: Sample # WCC-55-W062200

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 53$ CASTING VOLUME (GAL)
					2	4	6	
					0.16	0.64	1.44	
	90.10	62.30	=	27.80				17.80

TIME	0947	0954	1002					
VOLUME PURGED (GAL)	18	36	55					
PURGE RATE (GPM)	2.5	2.5	2.5					
TEMPERATURE (°F)	74.1	73.9	73.9					
pH	7.07	6.83	6.76					
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1553.	1557.	1561.					
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	Clear	Clear	Clear					
ODOR	No	No	No					
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'					
DEPTH TO WATER DURING PURGE (FT)	62.90	62.85	62.85					
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: WCC-55

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

## SAMPLE DATA:

TIME SAMPLED: 1006

COMMENTS:

DEPTH SAMPLED (FT): 75

SAMPLING EQUIPMENT:

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-55	2	VOA	HCL		50 ml				See C.O.C.	
W062200	2	Plastic	H2O2	No	1250 ml	—	Clear	Yes		

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 55 gal. COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: WCC-115

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.25

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1105

PURGE DEPTH (FT) 75'

TIME END PURGE: 1126

TIME SAMPLED: 1130 + 1135

COMMENTS: Sample # WCC-115-W062200 + WCC-115-D062200.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 51$ CASING VOLUME (GAL)
					2	4	6	
					0.16	0.64	1.44	
	90.90	64.25	=	26.65				17

TIME	1112	1118	1126					
VOLUME PURGED (GAL)	18	35	54					
PURGE RATE (GPM)	2.5	2.5	2.5					
TEMPERATURE (°C)	75.6	73.3	72.5					
pH	7.69	7.32	7.07					
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1374.	1362.	1364.					
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	Clear	Clear	Clear					
ODOR	No	No	No					
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'					
DEPTH TO WATER DURING PURGE (FT)	67.38	67.53	67.					
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: WCC-11S

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrivens

## SAMPLE DATA:

TIME SAMPLED: 1130 + 1135

COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-11S-W062200	2	VOA	UCL		80 ml				see C.O.C.	
WCC-11S-D062200	2	HWO <sub>3</sub>	4HWO <sub>3</sub>	NO	1250 ml	—	Clear	Yes	"	
	"	"	"	"	"	"	"	"	"	

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 54 COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS:

## GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell

Job File:

Other:

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: WCC-105

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 71.30

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1351

PURGE DEPTH (FT) 85'

TIME END PURGE: 1412

TIME SAMPLED: 1417

COMMENTS: Sample # WCC-105-W062200

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 48$
					2	4	6	
	96.40	71.30	=	25.10	0.16	0.64	1.44	= 16

TIME	1357	1404	1412					
VOLUME PURGED (GAL)	16	33	50					
PURGE RATE (GPM)	2.5	2.5	2.5					
TEMPERATURE (°C)	74.7	73.0	72.9					
pH	7.43	7.21	7.10					
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	998.	979.	976.					
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	Clear	Clear	Clear					
ODOR	No	No	No					
DEPTH OF PURGE INTAKE (FT)	85'	85'	85'					
DEPTH TO WATER DURING PURGE (FT)	72.50	72.60	72.64					
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Racing C-6WELL NUMBER: WCC-105PROJECT NUMBER: 004016.00PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 1417 COMMENTS: \_\_\_\_\_DEPTH SAMPLED (FT): 85 \_\_\_\_\_SAMPLING EQUIPMENT: Redi-Flow 2 \_\_\_\_\_

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-105 -W062200	2	JDA	HCl		80 mL					
	2	Plastic	HNO <sub>3</sub>	NO	1250 mL	—	Clear	Yes	See C.O.C.	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 50 gal. COMMENTS: \_\_\_\_\_DISPOSAL METHOD: Drum Storage \_\_\_\_\_DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drumWELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NOCOMMENTS: Well + outer casing is standing in a 4-5' deep hole.GENERAL:WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 85°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: Rus Purcell

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-6

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.59

MEASURING POINT DESCRIPTION: top of casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1510

PURGE DEPTH (FT) 75'

TIME END PURGE: 1522

TIME SAMPLED: 1525

COMMENTS: Sample # TMW-6-W062200

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 7.2$ CASING VOLUME (GAL)
							2	4	6	
	79.45		64.59	=	14.86	X	0.16	0.64	1.44	= 2.4
TIME	1513		1518		1522					
VOLUME PURGED (GAL)	2.5		5.0		8.0					
PURGE RATE (GPM)	.5		.5		.5					
TEMPERATURE (°C)	75.3		75.3		75.0					
pH	7.30		7.10		7.08					
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1822,		1835,		1822					
DISSOLVED OXYGEN (mg/L)										
eH(MV)Pt-AgCl ref.										
TURBIDITY/COLOR	J. light Olive brown		Clear		Clear					
ODOR	NO		NO		NO					
DEPTH OF PURGE INTAKE (FT)	75'		75'		75'					
DEPTH TO WATER DURING PURGE (FT)										
NUMBER OF CASING VOLUMES REMOVED										
DEWATERED?										

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-6

PROJECT NUMBER: 004016.00

PERSONNEL: Steve Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1528

COMMENTS:

DEPTH SAMPLED (FT): 75

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-6- W062200	2	VOA	HLL		80 ml					
	2	Plastic	HWO	No	1250 mL	—	Clear	Yes	sec C.O.C.	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 8.0

COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS:

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 85°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Russ Purcell

Job File:

Other:

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-4

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.61

MEASURING POINT DESCRIPTION: top of casing

WATER LEVEL MEASUREMENT METHOD: Electronic Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1607

PURGE DEPTH (FT) 77'

TIME END PURGE: 1617

TIME SAMPLED: 1622

COMMENTS: Sample # TMW-4-W062200.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 6.6$ CASING VOLUME (GAL)
							2	4	6	
	78.35	-	64.61	=	13.74	X	0.16	0.64	1.44	= 2.2

TIME	1611	1614	1617						
VOLUME PURGED (GAL)	2.5	5.0	7.5						
PURGE RATE (GPM)	.75	.75	.75						
TEMPERATURE (°F)	75.1	74.9	74.7						
pH	7.07	7.00	6.98						
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1545,	1541,	1547,						
DISSOLVED OXYGEN (mg/L)									
eH(MV)Pt-AgCl ref.									
TURBIDITY/COLOR	0. light Yellow		Clear	Clear					
ODOR	No	No	No						
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'						
DEPTH TO WATER DURING PURGE (FT)									
NUMBER OF CASING VOLUMES REMOVED									
DEWATERED?									

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6 WELL NUMBER: TMW-4

PROJECT NUMBER: 004016.00 PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1622 COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 77

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-4	2	VDA	HCL		80 mL					
W0622-00	2	Plastic	HNO <sub>3</sub>	NO	1250 mL	—	Clear	Yes	See C.O.C.	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 7.5 gal. COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): \_\_\_\_\_

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-3

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.19

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1659

PURGE DEPTH (FT) 75'

TIME END PURGE: 1709

TIME SAMPLED: 1715

COMMENTS: Sample # TMW-3-W062200

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			CASING VOLUME (GAL)
				2	4	6	
	82.05	65.19	16.86	0.16	0.64	1.44	2.7

TIME	1702	1705	1709				
VOLUME PURGED (GAL)	3 gal.	6 gal.	9 gal.				
PURGE RATE (GPM)	.5	.5	.5				
TEMPERATURE (°C)	73.6	73.5	73.6				
pH	7.16	7.12	7.02				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1291.	1266.	1253				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	light Yellow	U. light Yellow	clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-3

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrivnshire

## SAMPLE DATA:

TIME SAMPLED: 1715

COMMENTS:

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-3- W062000	2	UOA	HCL	80ml				YES	See COC	
	2	Plastic	HNO3	1250ml	—	—	Clear			

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 9 gal. COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS:

## GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-5

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.67

MEASURING POINT DESCRIPTION: top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Red - Flow 2

TIME START PURGE: 1759

PURGE DEPTH (FT) 75'

TIME END PURGE: 1807

TIME SAMPLED: 1812

COMMENTS: Sample # TMW-5-W062200

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 7.3$ CASING VOLUME (GAL)
						2	4	6	
79.95		64.67	=	15.28	X	0.16	0.64	1.44	2.44
TIME	1802	1804	1807						
VOLUME PURGED (GAL)	2.5	5.0	7.5						
PURGE RATE (GPM)	1.0	1.0	1.0						
TEMPERATURE (°C)	72.7	72.9	72.9						
pH	7.22	6.723	7.19						
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	763.	755.	756.						
DISSOLVED OXYGEN (mg/L)									
eH(MV)Pt-AgCl ref.									
TURBIDITY/COLOR	U. light Yellow	U.U light Yellow	Clear						
ODOR	NO	NO	NO						
DEPTH OF PURGE INTAKE (FT)	75'	75'	75						
DEPTH TO WATER DURING PURGE (FT)									
NUMBER OF CASING VOLUMES REMOVED									
DEWATERED?									

## Groundwater Purge and Sample Form

Date: 6-22-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6WELL NUMBER: TWW-5PROJECT NUMBER: 004016.00PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 1812

COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 75'SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TWW-5-W06200	2	WOKA Plastic	HCL	NO	50ml 1250ml	—	Clear	YES	See C.O.C.	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 7.5

COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): \_\_\_\_\_

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES  NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES  NOWELL CASING OK?:  YES  NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 75°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: Rus Purcell

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-23-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-9

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrivnshire

STATIC WATER LEVEL (FT): 65.22

MEASURING POINT DESCRIPTION: top of casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 0711

PURGE DEPTH (FT) 75'

TIME END PURGE: 0722

TIME SAMPLED: 0728

COMMENTS: Sample # TMW-9-W062300

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			=	CASING VOLUME (GAL)
						2	4	6		
	79.15	65.22	=	13.93	X	0.16	0.64	1.44	=	2.22

TIME	0715	0718	0722						
VOLUME PURGED (GAL)	2.5	5.0	7.5						
PURGE RATE (GPM)	.70	.70	.70						
TEMPERATURE (°C)	72.9	73.9	73.7						
pH	6.86	6.62	6.57						
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1359.	1356.	1347.						
DISSOLVED OXYGEN (mg/L)									
eH(MV)Pt-AgCl ref.									
TURBIDITY/COLOR	light Yellow	v. light Yellow	v.v. light Yellow						
ODOR	No	No	No						
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'						
DEPTH TO WATER DURING PURGE (FT)									
NUMBER OF CASING VOLUMES REMOVED									
DEWATERED?									

## Groundwater Purge and Sample Form

Date: 6-23-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-9

PROJECT NUMBER: 004016.00

PERSONNEL: Shana Scrimshire

## SAMPLE DATA:

TIME SAMPLED: 0728 COMMENTS:

DEPTH SAMPLED (FT): 75

SAMPLING EQUIPMENT: Radi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-9- W062300	2	UOA Plastic	HCL H2O <sub>2</sub>	NO	80 mL 1250 mL	—	U.U. light yellow	YES	SEC C.O.C.	

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 7.5 gal. COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL):

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS:

## GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 70°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-23-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-1

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.89

MEASURING POINT DESCRIPTION: Top of casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 0757

PURGE DEPTH (FT) 75'

TIME END PURGE: 0810

TIME SAMPLED: 0815

COMMENTS: Sample # TMW-1-W060300

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = ?$ CASING VOLUME (GAL)
					2	4	6	
					0.16	0.64	1.44	
	79.51	64.89		14.62				2.33

TIME	0801	0803	0807	0810				
VOLUME PURGED (GAL)	2.5	5.0	7.5	10 gal.				
PURGE RATE (GPM)	.75	.75	.75	.75				
TEMPERATURE (°C)	71.3	71.9	72.3	72.5				
pH	6.45	6.41	6.36	6.35				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	2,530.	2,670.	2,840.	2,870.				
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	light Yellow	v. light Yellow	v. light Yellow	v. light Yellow				
ODOR	NO	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	' 75	' 75	' 75	' 75				
DEPTH TO WATER DURING PURGE (FT)								
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

## Groundwater Purge and Sample Form

Date: 6-23-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6WELL NUMBER: TMW-1PROJECT NUMBER: 004016.00PERSONNEL: Shane Scrimshire

## SAMPLE DATA:

TIME SAMPLED: 0815 COMMENTS: \_\_\_\_\_DEPTH SAMPLED (FT): 75 \_\_\_\_\_SAMPLING EQUIPMENT: Redi-Flow 2 \_\_\_\_\_

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-1- WC62300	2	VOA Plastic	HCL HNO <sub>3</sub>	NO	80 mL 1250 mL	v. light	Yellow	YES	SEE C.O.C.	

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 75 10 gal. COMMENTS: \_\_\_\_\_DISPOSAL METHOD: Drum Storage \_\_\_\_\_

DRUM DESIGNATION(S)/VOLUME PER (GAL): \_\_\_\_\_

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

## GENERAL:

WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 72 °FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: Rus Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-23-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-7

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 65.15

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 0854

PURGE DEPTH (FT) 75'

TIME END PURGE: 0906

TIME SAMPLED: 0910

COMMENTS: Sample # TMW-7-W062300

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 7$ CASING VOLUME (GAL)
					2	4	6	
					0.16	0.64	1.44	
	79.81	65.15	=	14.16				2.34

TIME	0859	0902	0906					
VOLUME PURGED (GAL)	2.5	5.0	8.0					
PURGE RATE (GPM)	.70	.70	.70					
TEMPERATURE (°C)	72.5	73.7	73.7					
pH	6.36	6.25	6.23					
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1680.	1670.	1640.					
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	light Yellow	light Yellow	light Yellow					
ODOR	NO	NO	NO					
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'					
DEPTH TO WATER DURING PURGE (FT)								
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

PROJECT NAME: Boeing C-6WELL NUMBER: TWW-7PROJECT NUMBER: 0040 16.00PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 0910 COMMENTS: \_\_\_\_\_DEPTH SAMPLED (FT): 75' \_\_\_\_\_SAMPLING EQUIPMENT: Redi-Flow 2 \_\_\_\_\_

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TWW-7-W062300	2	VOA	HCL	No	50 ml	—	light yellow	Yes	See C.O.C.	
	2	Plastic	HNO3		1250 mL	—	Yellow			

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 8.0 COMMENTS: \_\_\_\_\_DISPOSAL METHOD: Drum Storage \_\_\_\_\_

DRUM DESIGNATION(S)/VOLUME PER (GAL): \_\_\_\_\_

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 80°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? Nocc: Project Manager: Rus Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-23-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-8

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 64.98

MEASURING POINT DESCRIPTION: top of casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Pedi-Flow 2

TIME START PURGE: 0940

PURGE DEPTH (FT) 75'

TIME END PURGE: 0949

TIME SAMPLED: 0955

COMMENTS: Sample # TMW-8-W062300

0946 - Re-calibrated pH probe.

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = ?$ CASING VOLUME (GAL)
				2	4	6	
	79.65	64.98	14.67	X	0.16	0.64	1.44
							= 2.34

TIME	0943	0946	0949				
VOLUME PURGED (GAL)	2.5	5.0	8.0				
PURGE RATE (GPM)	1.0	1.0	1.0				
TEMPERATURE (°C)	72.7	73.7	73.9				
pH	6.11	7.52	7.53				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1430.	1500.	1430.				
DISSOLVED OXYGEN (mg/L)							
eH(MV) Pt-AgCl ref.							
TURBIDITY/COLOR	light Yellow	v. light Yellow	clear				
ODOR	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	75'	75'	75'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 6-23-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-8

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

## SAMPLE DATA:

TIME SAMPLED: 0955 COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-8- W062300	2	UOA Plastic	HCL HNO <sub>3</sub>	NO	80mL 1250mL	—	Clear	YES	see C.O.C.	

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 8 gal. COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): \_\_\_\_\_

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

## GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 50°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-23-00

Kennedy/Jenks Consultants

PROJECT NAME: <u>Boeing C-6</u>	WELL NUMBER: <u>BL-3</u>
PROJECT NUMBER: <u>004016.00</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>73.58</u>	MEASURING POINT DESCRIPTION: <u>Top of casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Electric Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1040</u>	PURGE DEPTH (FT) <u>80'</u>
TIME END PURGE: <u>1053</u>	
TIME SAMPLED: <u>1058 + 1130</u>	
COMMENTS: <u>Sample #5 BL-3-W062300 + BL-3-R062300</u>	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 5.22$ Casing Volume (GAL)
				2	4	6	
				0.16	0.64	1.44	
	<u>84.10</u>	<u>73.58</u>	<u>10.52</u>				<u>1.74</u>

TIME	<u>1046</u>	<u>1050</u>	<u>1053</u>				
VOLUME PURGED (GAL)	<u>2 gal.</u>	<u>4 gal.</u>	<u>6 gal.</u>				
PURGE RATE (GPM)	<u>.50</u>	<u>.50</u>	<u>.50</u>				
TEMPERATURE (°C)	<u>75.3</u>	<u>75.8</u>	<u>75.3</u>				
pH	<u>7.17</u>	<u>6.77</u>	<u>6.89</u>				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>3050.</u>	<u>3,130.</u>	<u>3,150.</u>				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	<u>Light Olive brown</u>	<u>Light yellow</u>	<u>Clear</u>				
ODOR	<u>No</u>	<u>No</u>	<u>No</u>				
DEPTH OF PURGE INTAKE (FT)	<u>80'</u>	<u>80'</u>	<u>80'</u>				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

## Groundwater Purge and Sample Form

Date: 6-23-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: BL-3

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

## SAMPLE DATA:

TIME SAMPLED: 1058 (W) + 1130 (R) COMMENTS: BL-3-R062300 is a Rinsate

DEPTH SAMPLED (FT): 80

Blank collected after decon

SAMPLING EQUIPMENT: Radi-Flow 2

using D.I. water.

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
BL-3-R062300	2	VOA	HLL		500mL				See C.O.C.	
BL-3-R062300	2	Plastic	HNO <sub>3</sub>	NO	1250mL	—	Clear	Yes		
	"	"	"	"	"	"	"	"	"	

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 6 gal. COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): Water shared with BL-1 + BL-2.

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES  NO INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES  NO WELL CASING OK?: YES  NO 

COMMENTS: No box or stand pipe over well. Protected by an inverted drum.

## GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 80°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? \_\_\_\_\_

cc: Project Manager: Rus Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-26-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6WELL NUMBER: BL-2PROJECT NUMBER: 004016.00PERSONNEL: Shane SciumstreSTATIC WATER LEVEL (FT): 71.66MEASURING POINT DESCRIPTION: Top of casingWATER LEVEL MEASUREMENT METHOD: Electric ProbePURGE METHOD: Radial-Flow 2TIME START PURGE: 0949PURGE DEPTH (FT) 80'TIME END PURGE: 1003TIME SAMPLED: 1008COMMENTS: BL-2-W062600

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 4.89$ CASING VOLUME (GAL)
					2	4	6	
	<u>83.75</u>	<u>71.66</u>	=	<u>12.09</u>	<u>0.16</u>	<u>0.64</u>	<u>1.44</u>	<u>1.93</u>

TIME	0956	0959	1001	1003				
VOLUME PURGED (GAL)	2 gal.	4 gal.	6 gal.	8 gal.				
PURGE RATE (GPM)	.50	.50	.50	.50				
TEMPERATURE (°C)	78.6	77.2	75.8	75.5				
pH	6.89	6.58	6.55	6.52				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1550,	1680,	1700,	1710,				
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	light, olive brown	light yellow	light yellow	light yellow				
ODOR	NO	NO	NO	NO				
DEPTH OF PURGE INTAKE (FT)	80'	80'	80'	80'				
DEPTH TO WATER DURING PURGE (FT)								
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

PROJECT NAME: Boeing C-6

WELL NUMBER: BL-2

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

## SAMPLE DATA:

TIME SAMPLED: 1008 COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 80'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
BL-2 - W062600	4	HD poly w/pt. 250 ml plastic	H2O <sub>2</sub> + HCl	NO	1200 mL	—	Clear	Yes	See col	
		+ 100 ml plastic								

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 8 gal. COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): Partial drum, shared with BL-1 + BL-3 + TMW-16

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES  NO INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES  NO WELL CASING OK?: YES  NO 

COMMENTS: No lock or surface box.

## GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 65°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NO

cc: Project Manager: Rus Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-26-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6	WELL NUMBER: ISL-1
PROJECT NUMBER: 004016.00	PERSONNEL: Shane Scrimshire
STATIC WATER LEVEL (FT): 71.20	MEASURING POINT DESCRIPTION: top of casing
WATER LEVEL MEASUREMENT METHOD: Electric Probe	PURGE METHOD: Radi-Flow 2
TIME START PURGE: 1054	PURGE DEPTH (FT) 80
TIME END PURGE: 1104	
TIME SAMPLED: 1110	
COMMENTS: Sample # BL-1-W062600	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	-	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 6$ CASING VOLUME (GAL)
							2	4	6	
	83.65	-	71.20	-	12.45	X	0.16	0.64	1.44	= 1.99

TIME	1057	1100	1102	1104					
VOLUME PURGED (GAL)	2	4	6	8					
PURGE RATE (GPM)	.75	.75	.75	.75					
TEMPERATURE (°C)	78.6	76.7	76.2	76.4					
pH	6.57	6.53	6.44	6.37					
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	2170,	2120,	2110,	2110,					
DISSOLVED OXYGEN (mg/L)									
eH(MV)Pt-AgCl ref.									
TURBIDITY/COLOR	light, olive brown	light yellow	light yellow	light yellow					
ODOR	NO	NO	NO	NO					
DEPTH OF PURGE INTAKE (FT)	80	80	80	80					
DEPTH TO WATER DURING PURGE (FT)									
NUMBER OF CASING VOLUMES REMOVED									
DEWATERED?									

## Groundwater Purge and Sample Form

Date: 6-26-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: BL-1

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

## SAMPLE DATA:

TIME SAMPLED: 110 COMMENTS:

DEPTH SAMPLED (FT): 80'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
BL-1-W062600	4	2 Nalgene plastic	HCl HNO3	No	1200mL	—	Clear	Yes	See CEC	

## PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 8 gal. COMMENTS:

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): Partial drum, shared with BL-2 + BL-3 &amp; TMW-1b

## WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):

WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES  NO INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES  NO WELL CASING OK?: YES  NO 

COMMENTS: No lock, no surface box.

## GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 85±

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Russ Purcell

Job File:

Other:

## Groundwater Purge and Sample Form

Date: 6-26-00

Kennedy/Jenks Consultants

PROJECT NAME: <u>Boeing C-6</u>	WELL NUMBER: <u>WCC-3D</u>
PROJECT NUMBER: <u>004016.00</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>64.86</u>	MEASURING POINT DESCRIPTION: <u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Electric Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1156</u>	PURGE DEPTH (FT) <u>90'</u>
TIME END PURGE: <u>1258</u>	
TIME SAMPLED: <u>1303 + 1308</u>	
COMMENTS: <u>Sample #5 WCC-3D - W062600 + WCC-3D - D062600 (Duplicate)</u>	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 143$ CASING VOLUME (GAL)
							2	4	6	
							0.16	0.64	1.44	
	<u>139.45</u>		<u>64.86</u>		<u>74.59</u>					<u>47.7</u>

TIME	<u>1204</u>	<u>1221</u>	<u>1239</u>	<u>1258</u>						
VOLUME PURGED (GAL)	<u>20 gal.</u>	<u>50 gal.</u>	<u>100 gal.</u>	<u>150 gal.</u>						
PURGE RATE (GPM)	<u>2.4</u>	<u>2.4</u>	<u>2.4</u>	<u>2.4</u>						
TEMPERATURE (°C)	<u>76.1</u>	<u>74.6</u>	<u>74.3</u>	<u>74.5</u>						
pH	<u>6.93</u>	<u>7.05</u>	<u>7.16</u>	<u>7.13</u>						
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected)	<u>661.</u>	<u>653.</u>	<u>702.</u>	<u>705</u>						
DISSOLVED OXYGEN (mg/L)										
eH(MV)Pt-AgCl ref.										
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>						
ODOR	<u>No</u>	<u>No</u>	<u>No</u>	<u>No</u>						
DEPTH OF PURGE INTAKE (FT)	<u>90'</u>	<u>90'</u>	<u>90'</u>	<u>90'</u>						
DEPTH TO WATER DURING PURGE (FT)	<u>78.16</u>	<u>81.20</u>	<u>82.18</u>	<u>82.45</u>						
NUMBER OF CASING VOLUMES REMOVED										
DEWATERED?										

PROJECT NAME: Boeing C-6

WELL NUMBER: WCC-3D

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1303 + 1308

COMMENTS: WCC-3D - D062600 is a duplicate

DEPTH SAMPLED (FT): 90'

Sample.

SAMPLING EQUIPMENT: Radi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-3D D062600	4	2-UCA <sup>3</sup> Plastics	HCL HNO <sub>3</sub>	NO	80 mL + 1250 mL	—	Clear	Yes	See col	
WCC-3D D062600	4	"	"	"	"	"	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 150 gal.

COMMENTS:

DISPOSAL METHOD: Drum storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): 3 drums, labeled w/ contents + date.

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?: YES  NO INSIDE OF WELL HEAD AND OUTER CASING DRY?: YES  NO WELL CASING OK?: YES  NO 

COMMENTS: Well cap doesn't seal.

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 58 °F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell

Job File:

Other:

## Groundwater Purge and Sample Form

Date: 6-26-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing E-6

WELL NUMBER: TMW-16

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 63.77

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Radi-Flow 2

TIME START PURGE: 1355

PURGE DEPTH (FT) 73'

TIME END PURGE: 1407

TIME SAMPLED: 1410

COMMENTS: Sample # TMW-16-W062600

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 5.4$ CASING VOLUME (GAL)
							2	4	6	
	75.10		63.77	=	11.33	X	0.16	0.64	1.44	1.81

TIME	1359	1404	1407							
VOLUME PURGED (GAL)	2 gal.	4 gal.	6 gal.							
PURGE RATE (GPM)	.5 gpm	.5 gpm	.5 gpm							
TEMPERATURE (°C)	76.8	78.1	77.9							
pH	6.96	6.92	6.88							
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1748	1842	1877							
DISSOLVED OXYGEN (mg/L)										
eH(MV)Pt-AgCl ref.										
TURBIDITY/COLOR	Olive brown	light, olive brown	v. light olive brown							
ODOR	No	No	No							
DEPTH OF PURGE INTAKE (FT)	73'	73'	73'							
DEPTH TO WATER DURING PURGE (FT)										
NUMBER OF CASING VOLUMES REMOVED										
DEWATERED?										

## Groundwater Purge and Sample Form

Date: 6-26-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-16

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrivnshire

SAMPLE DATA:

TIME SAMPLED: 1412 COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 73

SAMPLING EQUIPMENT: Radi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CON-TAINER TYPE	PRESER-VATIVE	FIELD FILTRA-TION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-16 W062600	4	2-VOA's + 2-Plastic	HCl + HNO3	NO	80 mL + 1250mL	—	U. light olive Brown	YES	See COL	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 6 gal. COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum Storage

DRUM DESIGNATION(S)/VOLUME PER (GAL): Partial drum shared w/ BL-wells.

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 90° F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

PROJECT NAME: <u>Boeing C-6</u>	WELL NUMBER: <u>TMW - 2</u>
PROJECT NUMBER: <u>004016.00</u>	PERSONNEL: <u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT): <u>64.64</u>	MEASURING POINT DESCRIPTION: <u>Top of casing</u>
WATER LEVEL MEASUREMENT METHOD: <u>Electric Probe</u>	PURGE METHOD: <u>Redi-Flow 2</u>
TIME START PURGE: <u>1438</u>	PURGE DEPTH (FT) <u>75'</u>
TIME END PURGE: <u>1448</u>	
TIME SAMPLED: <u>1453</u>	
COMMENTS: <u>Sample # TMW-2 - WD 62600</u>	

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	=	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 7.2$ CASING VOLUME (GAL)
							2	4	6	
							0.16	0.64	1.44	
	<u>79.75</u>		<u>64.64</u>	=	<u>15.11</u>					<u>2.4</u>

TIME	<u>1441</u>	<u>1444</u>	<u>1448</u>						
VOLUME PURGED (GAL)	<u>2.5</u>	<u>5 gal.</u>	<u>7.5</u>						
PURGE RATE (GPM)	<u>.75</u>	<u>.75</u>	<u>.75</u>						
TEMPERATURE (°C)	<u>74.7</u>	<u>74.3</u>	<u>73.9</u>						
pH	<u>6.35</u>	<u>6.21</u>	<u>6.19</u>						
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>2,590.</u>	<u>2,530.</u>	<u>2,530.</u>						
DISSOLVED OXYGEN (mg/L)									
eH(MV)Pt-AgCl ref.									
TURBIDITY/COLOR	<u>light olive green</u>	<u>light olive green</u>	<u>light greenish yellow</u>						
ODOR	<u>sour odor</u>	<u>sour odor</u>	<u>sour odor</u>						
DEPTH OF PURGE INTAKE (FT)	<u>75'</u>	<u>75'</u>	<u>75'</u>						
DEPTH TO WATER DURING PURGE (FT)									
NUMBER OF CASING VOLUMES REMOVED									
DEWATERED?									

PROJECT NAME: Boeing C-6

WELL NUMBER: TMW-2

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1453 COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 75'

SAMPLING EQUIPMENT: Redi-Flow 2

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
TMW-2-W262600	4	2-NCR's + 2-plastics	HCl + HNO <sub>3</sub>	NO	80 ml + 1250 mL	—	light, greenish yellow	Yes	See C.O.C.	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 7.5 COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum storage.

DRUM DESIGNATION(S)/VOLUME PER (GAL): Drum shared w/ WCC-3S

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 90°

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Russ Purcell  
Job File: \_\_\_\_\_  
Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-26-00

Kennedy/Jenks Consultants

PROJECT NAME:	<u>Boeing C-6</u>	WELL NUMBER:	<u># WCC-3S</u>
PROJECT NUMBER:	<u>004016.00</u>	PERSONNEL:	<u>Shane Scrimshire</u>
STATIC WATER LEVEL (FT):	<u>63.64</u>	MEASURING POINT DESCRIPTION:	<u>Top of Casing</u>
WATER LEVEL MEASUREMENT METHOD:	<u>Electric Sounder</u>	PURGE METHOD:	<u>Radial-Flow 2</u>
TIME START PURGE:	<u>1533</u>	PURGE DEPTH (FT)	<u>77</u>
TIME END PURGE:	<u>1551</u>		
TIME SAMPLED:	<u>1556</u>		
COMMENTS:	<u>Sample # WCC-3S-W062600</u>		

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$x 3 = 48$ CASING VOLUME (GAL)
					2	4	6	
					0.16	0.64	1.44	
	<u>488.85</u>	<u>64.63</u> <u>63.64</u>	<u>25.21</u>					<u>16.13</u>
TIME	<u>1539</u>	<u>1546</u>	<u>1551</u>					
VOLUME PURGED (GAL)	<u>16</u>	<u>32</u>	<u>48</u>					
PURGE RATE (GPM)	<u>2.5</u>	<u>2.5</u>	<u>2.5</u>					
TEMPERATURE (°C)	<u>75.4</u>	<u>74.9</u>	<u>74.8</u>					
pH	<u>6.28</u>	<u>6.10</u>	<u>6.03</u>					
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	<u>3,190.</u>	<u>2,760.</u>	<u>2,780.</u>					
DISSOLVED OXYGEN (mg/L)								
eH(MV)Pt-AgCl ref.								
TURBIDITY/COLOR	<u>Clear</u>	<u>Clear</u>	<u>Clear</u>					
ODOR	<u>Sour odor</u>	<u>Sour odor</u>	<u>Sour odor</u>					
DEPTH OF PURGE INTAKE (FT)	<u>77'</u>	<u>77'</u>	<u>77'</u>					
DEPTH TO WATER DURING PURGE (FT)								
NUMBER OF CASING VOLUMES REMOVED								
DEWATERED?								

PROJECT NAME: Boeing C-6WELL NUMBER: WCC-35PROJECT NUMBER: 004016.00PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 1556 COMMENTS: \_\_\_\_\_DEPTH SAMPLED (FT): 77 \_\_\_\_\_SAMPLING EQUIPMENT: Redi-Flow 2 \_\_\_\_\_

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-35- W002600	4	2-NAS 2-Plastic	HCL HNO3	50mL 125mL		—	Clear	Yes	See C.O.C.	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 48 COMMENTS: \_\_\_\_\_DISPOSAL METHOD: Drum storage \_\_\_\_\_

DRUM DESIGNATION(S)/VOLUME PER (GAL): \_\_\_\_\_

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

GENERAL:

WEATHER CONDITIONS: ClearTEMPERATURE (SPECIFY °C OR °F): 85°FPROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? NOcc: Project Manager: Rus Purcell

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-26-00

Kennedy/Jenks Consultants

PROJECT NAME:	Boeing C-6	WELL NUMBER:	WCC-6S
PROJECT NUMBER:	004016.00	PERSONNEL:	Shane Scrimshire
STATIC WATER LEVEL (FT):	64.98	MEASURING POINT DESCRIPTION:	Top of casing
WATER LEVEL MEASUREMENT METHOD:	Electric Probe	PURGE METHOD:	Radiflow 2
TIME START PURGE:	1625	PURGE DEPTH (FT)	77'
TIME END PURGE:	1645		
TIME SAMPLED:	1650 + 1710		
COMMENTS:	Sample # <sup>5</sup> WCC-6S-W062600 + WCC-6S-R062600		

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	DEPTH TO WATER (FT)	WATER COLUMN (FT)	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 45$ CASING VOLUME (GAL)
				2	4	6	
	558.40	64.98	23.42	0.16	0.64	1.44	= 15

TIME	1633	1639	1645				
VOLUME PURGED (GAL)	15gal.	30gal.	45gal.				
PURGE RATE (GPM)	2.25	2.25	2.25				
TEMPERATURE (°C)	75.0	74.9	74.8				
pH	6.30	6.27	6.18				
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	2030.	1930.	1910.				
DISSOLVED OXYGEN (mg/L)							
eH(MV)Pt-AgCl ref.							
TURBIDITY/COLOR	D.D. slightly turbid, brown	Clear	Clear				
ODOR	sour odor	sour odor	sour odor				
DEPTH OF PURGE INTAKE (FT)	77'	77'	77'				
DEPTH TO WATER DURING PURGE (FT)							
NUMBER OF CASING VOLUMES REMOVED							
DEWATERED?							

PROJECT NAME: Boeing C-6

WELL NUMBER: WCC-6S

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

SAMPLE DATA:

TIME SAMPLED: 1650 + 1710

COMMENTS: WCC-6S-R062600 is an

DEPTH SAMPLED (FT): 77'

equipment rinsate blank that

SAMPLING EQUIPMENT: Redi-Flow 2

was collected after decon.

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
WCC-6S-R062600	2	VOA <sup>5</sup>	HCL	NO	80 mL	—	Clear	YES	See C.O.C.	
WCC-6S-R062600	2	Plastics	HNO <sub>3</sub>	NO	1250 mL	—	"	"	"	
	"	"	"	"	"	—	"	"	"	

PURGE WATER DISPOSAL NOTES:

TOTAL DISCHARGE (GAL): 45 gal.

COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum storage

\_\_\_\_\_

DRUM DESIGNATION(S)/VOLUME PER (GAL): 1 drum

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES  NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES  NOWELL CASING OK?:  YES  NO

COMMENTS: \_\_\_\_\_

GENERAL:

WEATHER CONDITIONS: Clear

TEMPERATURE (SPECIFY °C OR °F): 85°F

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

cc: Project Manager: Rus Purcell

Job File: \_\_\_\_\_

Other: \_\_\_\_\_

## Groundwater Purge and Sample Form

Date: 6-26-00

Kennedy/Jenks Consultants

PROJECT NAME: Boeing C-6

WELL NUMBER: DAC-PI

PROJECT NUMBER: 004016.00

PERSONNEL: Shane Scrimshire

STATIC WATER LEVEL (FT): 71.86

MEASURING POINT DESCRIPTION: Top of Casing

WATER LEVEL MEASUREMENT METHOD: Electric Probe

PURGE METHOD: Redi-Flow 2

TIME START PURGE: 1741

PURGE DEPTH (FT) 90'

TIME END PURGE: 1812

TIME SAMPLED: 1817

COMMENTS: Sample # DAC-PI-WO 62600

WELL VOLUME CALCULATION (FILL IN BEFORE PURGING)	TOTAL DEPTH (FT)	-	DEPTH TO WATER (FT)	-	WATER COLUMN (FT)	X	MULTIPLIER FOR CASING DIAMETER (IN)			$\times 3 = 47.28$
							2	4	6	
	96.50		71.86		24.64		0.16	0.64	1.44	15.76

TIME	1750	1800	1812						
VOLUME PURGED (GAL)	16	35	50						
PURGE RATE (GPM)	1.60	1.60	1.60						
TEMPERATURE (°C)	74.0	75.8	73.6						
pH	6.43	6.26	6.20						
SPECIFIC CONDUCTIVITY (micromhos) (uncorrected) cm	1777.	1859.	1828.						
DISSOLVED OXYGEN (mg/L)									
eH(MV)Pt-AgCl ref.									
TURBIDITY/COLOR	Clear	Clear	Clear						
ODOR	No	No	No						
DEPTH OF PURGE INTAKE (FT)	90'	90'	90'						
DEPTH TO WATER DURING PURGE (FT)	75.20	75.45	75.70						
NUMBER OF CASING VOLUMES REMOVED									
DEWATERED?									

PROJECT NAME: Boeing C-6WELL NUMBER: DAC-P1PROJECT NUMBER: 004016.00PERSONNEL: Shane ScrimshireSAMPLE DATA:TIME SAMPLED: 1617

COMMENTS: \_\_\_\_\_

DEPTH SAMPLED (FT): 90

\_\_\_\_\_

SAMPLING EQUIPMENT: Redi-Flow 2

\_\_\_\_\_

SAMPLE NO.	NO. OF CONTAINERS	CONTAINER TYPE	PRESERVATIVE	FIELD FILTRATION	VOLUME FILLED (ml or L)	TURBIDITY	COLOR	SHIPPED UNDER CHAIN-OF-CUSTODY AT 4°C?	ANALYSIS REQUEST (METHOD)	COMMENTS
DAC-P1- W062600	2	WDA <sup>s</sup> Plastics	HLL H2O <sup>s</sup>	HLL NO	80 mL 1250 mL	—	clear	Yes	See C.O.C.	

PURGE WATER DISPOSAL NOTES:TOTAL DISCHARGE (GAL): 50

COMMENTS: \_\_\_\_\_

DISPOSAL METHOD: Drum Storage

\_\_\_\_\_

DRUM DESIGNATION(S)/VOLUME PER (GAL):

\_\_\_\_\_

WELL HEAD CONDITIONS CHECKLIST (CIRCLE YES OR NO - IF NO, ADD COMMENTS):WELL SECURITY DEVICES OK (BOLLARDS, CHRISTY LID, CASING LID AND LOCK)?:  YES NOINSIDE OF WELL HEAD AND OUTER CASING DRY?:  YES NOWELL CASING OK?:  YES NO

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

GENERAL: \_\_\_\_\_

\_\_\_\_\_

WEATHER CONDITIONS: Clear

\_\_\_\_\_

TEMPERATURE (SPECIFY °C OR °F): 80 °F

\_\_\_\_\_

PROBLEMS ENCOUNTERED DURING PURGING OR SAMPLING? No

\_\_\_\_\_

cc: Project Manager: Rus Purcell

\_\_\_\_\_

Job File: \_\_\_\_\_

\_\_\_\_\_

Other: \_\_\_\_\_

\_\_\_\_\_

## **APPENDIX B**

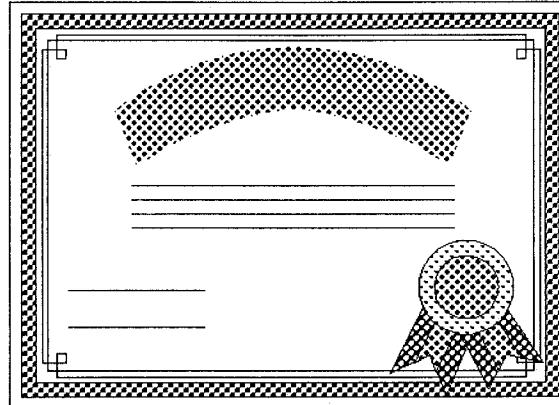
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### **LABORATORY REPORTS AND CHAIN-OF-CUSTODY RECORDS**



## ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067  
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970



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IRVINE, CA

ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.



## ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067  
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

### LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification

(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print): Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 004016.00

Laboratory Reference: KJC 11587

Analytical Method: 8260, Metals

Date Sampled: 06-20/21-00

Date Received: 06/21/00

Date Reported: 06/28/00

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Burt Severson

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
2151 Michelson Dr., Suite 100  
Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11587

<b>Sampled:</b>	---	06/20/00	06/20/00	06/20/00
<b>Received:</b>	---	06/21/00	06/21/00	06/21/00
<b>Analyzed:</b>	06/26/00	06/26/00	06/26/00	06/26/00
<b>Reported:</b>				

<b>Lab Sample I.D.</b>	MB	00060127	00060128	00060129
<b>Client Sample I.D.</b>	---	WCC-9S	TMW-11	TMW-10
		-W062000	-W062000	-W062000

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0	<5.0	<1.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Bromomethane	74-83-9	1.0	<1.0	<1.0	<5.0	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Chloroethane	75-00-3	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Chloroform	67-66-3	0.5	<0.5	49	740	4.7	
Chloromethane	74-87-3	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	<0.5	14	<2.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5	<13	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	<0.5	<0.5	<2.5	1.0	
Toluene	108-88-3	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Trichloroethene	79-01-6	0.5	<0.5	78	47	4.1	
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0	<5.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<1.0	<5.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	<0.5	<2.5	<0.5	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5	<2.5	<0.5	<0.5

INT 

Orange Coast Analytical, Inc

## VOLATILE ORGANICS BY GC/MS (EPA 8260)

(continued)

<b>Laboratory Reference #:</b> KJC 11587	<b>Sampled:</b>	---	06/20/00	06/20/00	06/20/00
	<b>Received:</b>	---	06/21/00	06/21/00	06/21/00
<b>Client Project ID:</b> Boeing C-6	<b>Analyzed:</b>	06/26/00	06/26/00	06/26/00	06/26/00
<b>Client Project #:</b> 004016.00	<b>Reported:</b>	01/00/00	01/00/00	01/00/00	01/00/00
	<b>Lab Sample I.D.</b>	MB	00060127	00060128	00060129
	<b>Client Sample I.D.</b>	---	WCC-9S	TMW-11	TMW-10
			-W062000	-W062000	-W062000

<b>ANALYTE (CONT)</b>	<b>CAS NUMBER</b>	<b>DETECTION</b>	<b>SAMPLE RESULTS</b>			
		<b>LIMIT</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>
Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<2.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<2.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<2.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<2.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<2.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<2.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<2.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<2.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<2.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<2.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<2.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<2.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<2.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<2.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<2.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<2.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<2.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<2.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<2.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<2.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<2.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<5.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<2.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<2.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<0.5	<2.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<2.5	<0.5
<b>SURROGATE RECOVERY</b>				<b>%RC</b>	<b>%RC</b>	<b>%RC</b>
	<b>Dibromofluoromethane</b>			87	93	97
	<b>Toluene-d8</b>			93	96	95
	<b>4-Bromofluorobenzene</b>			107	114	116

INT 

Orange Coast Analytical, Inc

**Kennedy Jenks Consultants**  
 ATTN: Mr. Rus Purcell  
 2151 Michelson Dr., Suite 100  
 Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11587

<b>Sampled:</b>	06/21/00	06/21/00	06/21/00	06/20/00
<b>Received:</b>	06/21/00	06/21/00	06/21/00	06/21/00
<b>Analyzed:</b>	06/26/00	06/26/00	06/26/00	06/26/00
<b>Reported:</b>				
<b>Lab Sample I.D.</b>	00060130	00060131	00060132	00060133
<b>Client Sample I.D.</b>	WCC-12S	TMW-12	TMW-13	WCC-9S
	-W062100	-W062100	-W062100	-B062000

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>	<b>SAMPLE RESULTS</b>			
			<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	<0.5	<10	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<20	<1.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<10	<0.5	<0.5
Bromomethane	74-83-9	1.0	<1.0	<20	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<10	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	<10	2.9	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<10	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<10	<0.5	<0.5
Chloroethane	75-00-3	0.5	<0.5	<10	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<10	<0.5	<0.5
Chloroform	67-66-3	0.5	2.8	2100	14	<0.5
Chloromethane	74-87-3	0.5	<0.5	<10	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	24	<10	<0.5	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<10	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	47	25	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<10	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<10	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<10	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<10	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<10	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<50	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<10	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<10	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	1.0	13	2.9	<0.5
Toluene	108-88-3	0.5	<0.5	<10	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<10	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<10	<0.5	<0.5
Trichloroethene	79-01-6	0.5	160	440	97	<0.5
Trichlorofluoromethane	75-69-4	0.5	<0.5	<10	<0.5	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<20	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<10	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<20	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<10	<0.5	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	1.9	<10	<0.5	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<10	<0.5	<0.5

INT *[Signature]*

Orange Coast Analytical, Inc

## VOLATILE ORGANICS BY GC/MS (EPA 8260)

(continued)

Laboratory Reference #: KJC 11587

*Sampled:* 06/21/00    *Received:* 06/21/00    *Analyzed:* 06/26/00    *Reported:* 01/00/00    06/21/00    06/21/00    06/26/00    06/20/00

Client Project ID: Boeing C-6

*Sampled:* 06/21/00    *Received:* 06/21/00    *Analyzed:* 06/26/00    *Reported:* 01/00/00    06/21/00    06/21/00    06/26/00    06/21/00

Client Project #: 004016.00

<i>Lab Sample I.D.</i>	00060130	<i>Client Sample I.D.</i>	WCC-12S	00060131	00060132	00060133
				TMW-12	TMW-13	WCC-9S
				-W062100	-W062100	-B062000

ANALYTE (CONT)	CAS NUMBER	DETECTION LIMIT	SAMPLE RESULTS			
			ug/l	ug/l	ug/l	ug/l
Bromochloromethane	74-97-5	0.5	<0.5	<10	<0.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<10	<0.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<10	<0.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<10	<0.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<10	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<10	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<10	<0.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<10	<0.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<10	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<10	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<10	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<10	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<10	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<10	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<10	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<10	<0.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<10	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<10	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<10	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<10	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<10	<0.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<20	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<10	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<10	<0.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<10	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<10	<0.5	<0.5
<b>SURROGATE RECOVERY</b>			%RC	%RC	%RC	%RC
<i>Dibromofluoromethane</i>			91	97	92	95
<i>Toluene-d8</i>			94	94	95	98
<i>4-Bromofluorobenzene</i>			111	114	109	113

INT *BS*

Orange Coast Analytical, Inc

**Address Here**

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
2151 Michelson Dr., Suite 100  
Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

<b>Sampled:</b>	---	06/20/00	06/20/00	06/20/00
<b>Received:</b>	---	06/21/00	06/21/00	06/21/00
<b>Reported:</b>				

Laboratory Reference #: KJC 11587

<b>Lab Sample I.D.</b>	MB	00060127	00060128	00060129
<b>Client Sample I.D.</b>	---	WCC-9S	TMW-11	TMW-10
		-W062000	-W062000	-W062000

**CCR METALS**

<b>ANALYTE</b>	<b>DATE TESTED</b>	<b>EPA METHOD</b>	<b>DETECTION LIMIT</b>		<b>SAMPLE RESULTS</b>			
			<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>
Antimony	06/26/00	6010	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	06/26/00	6010	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium	06/26/00	6010	0.01	<0.01	0.25	0.41	0.14	
Beryllium	06/26/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	06/26/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	06/21/00	7196	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium (Total)	06/26/00	6010	0.01	<0.01	0.013	0.013	0.014	
Cobalt	06/26/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper	06/26/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	06/26/00	6010	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Mercury	06/23/00	7471	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	06/26/00	6010	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	06/26/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	06/26/00	6010	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver	06/26/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thallium	06/26/00	6010	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	06/26/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	06/26/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01

INT 

Orange Coast Analytical, Inc

**Address Here**

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
2151 Michelson Dr., Suite 100  
Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

**Sampled:** 06/21/00    **Received:** 06/21/00    **Reported:** 06/21/00    **06/21/00**  
**06/21/00**    **06/21/00**    **06/21/00**    **06/21/00**

Laboratory Reference #: KJC 11587

<b>Lab Sample I.D.</b>	00060130	00060131	00060132
<b>Client Sample I.D.</b>	WCC-12S	TMW-12	TMW-13
	-W062100	-W062100	-W062100

**CCR METALS**

<b>ANALYTE</b>	<b>DATE TESTED</b>	<b>EPA METHOD</b>	<b>DETECTION LIMIT mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>
Antimony	06/26/00	6010	0.1	<0.1	<0.1	<0.1
Arsenic	06/26/00	6010	0.1	<0.1	<0.1	<0.1
Barium	06/26/00	6010	0.01	0.12	0.34	0.13
Beryllium	06/26/00	6010	0.01	<0.01	<0.01	<0.01
Cadmium	06/26/00	6010	0.01	<0.01	<0.01	<0.01
Chromium (VI)	06/21/00	7196	0.01	<0.01	<0.01	<0.01
Chromium (Total)	06/26/00	6010	0.01	0.013	<0.01	0.011
Cobalt	06/26/00	6010	0.01	<0.01	<0.01	<0.01
Copper	06/26/00	6010	0.01	<0.01	<0.01	<0.01
Lead	06/26/00	6010	0.05	<0.05	<0.05	<0.05
Mercury	06/23/00	7471	0.001	<0.001	<0.001	<0.001
Molybdenum	06/26/00	6010	0.05	<0.05	<0.05	<0.05
Nickel	06/26/00	6010	0.01	<0.01	<0.01	<0.01
Selenium	06/26/00	6010	0.1	<0.1	<0.1	<0.1
Silver	06/26/00	6010	0.01	<0.01	<0.01	<0.01
Thallium	06/26/00	6010	0.1	<0.1	<0.1	<0.1
Vanadium	06/26/00	6010	0.01	<0.01	<0.01	<0.01
Zinc	06/26/00	6010	0.01	<0.01	<0.01	<0.01

INT BS

Orange Coast Analytical, Inc

## QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 06/26/00

Laboratory Sample No : 00060127

Laboratory Reference No : KJC 11587

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
1,1-Dichloroethene	14	20	35	35	35	30	0
Benzene	0.0	20	21	20	35	30	5
Trichloroethene	78	20	102	100	120	110	2
Toluene	0.0	20	21	20	105	100	5
Chlorobenzene	0.0	20	22	21	110	105	5

### Definition of Terms :

R1                  Results Of First Analysis

SP                  Spike Concentration Added to Sample

MS                  Matrix Spike Results

MSD                Matrix Spike Duplicate Results

PR1                Percent Recovery Of MS:  $\{(MS-R1) / SP\} \times 100$

PR2                Percent Recovery Of MSD:  $\{(MSD-R1) / SP\} \times 100$

RPD                Relative Percent Difference:  $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

INT 

Orange Coast Analytical, Inc.

## QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11587

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	06/26/00	00060132	0.00	1.00	1.04	0.986	104	99	5
Arsenic	06/26/00	00060132	0.00	1.00	0.960	0.965	96	96.5	1
Barium	06/26/00	00060132	0.13	0.100	0.220	0.222	90	92	1
Beryllium	06/26/00	00060132	0.00	0.100	0.102	0.102	102	102	0
Cadmium	06/26/00	00060132	0.00	0.100	0.100	0.101	100	101	1
Chromium (Total )	06/26/00	00060132	0.011	0.100	0.115	0.115	104	104	0
Chromium ( VI )	06/21/00	00060132	0.00	0.10	0.108	0.114	108	114	5
Cobalt	06/26/00	00060132	0.00	0.100	0.089	0.090	89	90	1
Copper	06/26/00	00060132	0.00	0.100	0.098	0.098	98	98	0
Lead	06/26/00	00060132	0.00	0.50	0.465	0.472	93	94	1
Mercury	06/23/00	00060132	0.00	0.010	0.0097	0.0100	97	100	3
Molybdenum	06/26/00	00060132	0.00	0.50	0.498	0.496	100	99.2	0
Nickel	06/26/00	00060132	0.00	0.500	0.412	0.414	82	83	0
Selenium	06/26/00	00060132	0.00	1.00	0.950	0.975	95	98	3
Silver	06/26/00	00060132	0.00	0.100	0.090	0.089	90	89	1
Thallium	06/26/00	00060132	0.00	1.00	0.910	0.928	91	93	2
Vanadium	06/26/00	00060132	0.00	0.500	0.512	0.509	102	102	1
Zinc	06/26/00	00060132	0.00	0.100	0.089	0.091	89	91	2

### Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

INT 

Orange Coast Analytical, Inc.

## KENNEDY/JENKS CONSULTANTS

## SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

POSSIBLE HAZARDS:

Date 6-21-00Report To RJS PurcellSource of Samples Iscoing C-6Company Kennedy / JenkinsSampler Name Shane ScrivenshireAddress 2151 Michelson Dr. Ste 100Phone 661-835-0785

Irvine CA 92613

Project No. 004016.00Phone (714)-761-1577

(1) Lab ID No.	(1) Client ID No.	COLLECTION		(2) Type	(3) Depth	(4) Comp.	(5) Pres.	Turn around	(5) ANALYSES REQUESTED					Comment/Conditions (Container type, container number, etc.)
		Date	Time						HCL	Norm	X	X	X	
	WCC-95-W062000	6/21/00	1410	W	75'	—	HCL	Norm	X	X	X			
	THW-11-W062000	"	1510	W	75'	—	"	"	X	X	X			
	THW-10-W062000	"	1600	W	75'	—	"	"	X	X	X			
	WCC-12S-W062100	6/21/00	0915	W	75'	—	"	"	X	X	X			
	THW-12-W062100	"	1000	W	75'	—	"	"	X	X	X			
	THW-13-W062100	"	1056	W	75'	—	"	"	X	X	X			
	WCC-95-B062000	6/20/00	—	W	—	—	"	"	X					

(1) Write only one sample number in each space.

(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.

(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.

(4) Preservation of sample.

(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

## SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
Shane Scrivenshire		C/S	6/21/00	11:30					
Isaac Navarrete		OCA	6/21/00	11:30					



## ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067  
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

### LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification

(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print): Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 004016.00

Laboratory Reference: KJC 11589

Analytical Method: 8260, Metals

Date Sampled: 06-21/22-00

Date Received: 06/22/00

Date Reported: 06/30/00

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
2151 Michelson Dr., Suite 100  
Irvine, CA 92612

Client Project ID: Boeing C-6  
Client Project #: 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11589

<b>Sampled:</b>	---	06/21/00	06/21/00	06/22/00
<b>Received:</b>	---	06/22/00	06/22/00	06/22/00
<b>Analyzed:</b>	06/27/00	06/27/00	06/27/00	06/27/00
<b>Reported:</b>	06/30/00	06/30/00	06/30/00	06/30/00

<b>Lab Sample I.D.</b>	MB	00060137	00060138	00060139
<b>Client Sample I.D.</b>	---	TMW-14-	WCC-4S	TMW-15
		-W062100	-W062100	-W062200

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION</b>	<b>SAMPLE RESULTS</b>			
		<b>LIMIT</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	<0.5	<0.5	<10	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0	<20	<1.0
Bromoform	75-25-2	0.5	<0.5	<0.5	<10	<0.5
Bromomethane	74-83-9	1.0	<1.0	<1.0	<20	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5	<10	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	1.8	<10	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<0.5	<10	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5	<10	<0.5
Chloroethane	75-00-3	0.5	<0.5	<0.5	<10	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5	<10	<0.5
Chloroform	67-66-3	0.5	<0.5	5.8	<10	11
Chloromethane	74-87-3	0.5	<0.5	<0.5	<10	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5	<10	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5	<10	<0.5
1,1-Dichloroethene	75-35-4	0.5	<0.5	<0.5	1800	1.7
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5	<10	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5	<10	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5	<10	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5	<10	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	0.57	<10	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5	<50	<2.5
Styrene	100-42-5	0.5	<0.5	<0.5	<10	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<10	<0.5
Tetrachloroethene	127-18-4	0.5	<0.5	1.0	<10	<0.5
Toluene	108-88-3	0.5	<0.5	1.3	<10	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5	<10	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5	<10	<0.5
Trichloroethene	79-01-6	0.5	<0.5	10	1300	35
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5	<10	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0	<20	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5	<10	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	1.8	<20	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5	<10	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	<0.5	<10	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5	<10	<0.5

## VOLATILE ORGANICS BY GC/MS (EPA 8260)

(continued)

**Laboratory Reference #:** KJC 11589**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

<b>Sampled:</b>	---	06/21/00	06/21/00	06/22/00
<b>Received:</b>	---	06/22/00	06/22/00	06/22/00
<b>Analyzed:</b>	06/27/00	06/27/00	06/27/00	06/27/00
<b>Reported:</b>	06/30/00	06/30/00	06/30/00	06/30/00

<b>Lab Sample I.D.</b>	MB	00060137	00060138	00060139
<b>Client Sample I.D.</b>	---	TMW-14-	WCC-4S	TMW-15
		-W062100	-W062100	-W062200

<b>ANALYTE (CONT)</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>	<b>SAMPLE RESULTS</b>			
			<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>
Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<10	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<10	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<10	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<10	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<10	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<10	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<10	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<10	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<10	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<10	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<10	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<10	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<10	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<10	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<10	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<10	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<10	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<10	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<10	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<10	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<10	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<20	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<10	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<10	<0.5
Naphthalene	91-20-3	0.5	<0.5	<0.5	<10	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<10	<0.5
<b>SURROGATE RECOVERY</b>			%RC	%RC	%RC	%RC
<i>Dibromofluoromethane</i>			96	94	100	98
<i>Toluene-d8</i>			94	93	96	93
<i>4-Bromofluorobenzene</i>			111	111	120	116

**Kennedy Jenks Consultants**  
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Irvine, CA 92612

Client Project ID: Boeing C-6  
Client Project #: 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11589

<b>Sampled:</b>	06/22/00	06/22/00	06/22/00
<b>Received:</b>	06/22/00	06/22/00	06/22/00
<b>Analyzed:</b>	06/27/00	06/27/00	06/27/00
<b>Reported:</b>	06/30/00	06/30/00	06/30/00
<b>Lab Sample I.D.</b>	00060140	00060141	00060142
<b>Client Sample I.D.</b>	WCC-7S	WCC5S	WCC-11S
	-W062200	-W062200	-W062200

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION</b>	<b>SAMPLE RESULTS</b>		
		<b>LIMIT</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	<0.5	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<0.5	<0.5
Bromomethane	74-83-9	1.0	<1.0	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5	<0.5
Chloroethane	75-00-3	0.5	<0.5	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5	<0.5
Chloroform	67-66-3	0.5	0.67	<0.5	0.58
Chloromethane	74-87-3	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	1.1	<0.5	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	190	8.5	25
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	<0.5	<0.5	<0.5
Toluene	108-88-3	0.5	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	1.7	<0.5	<0.5
Trichloroethene	79-01-6	0.5	170	2.7	110
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	1.1	<0.5	12
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5	<0.5

## VOLATILE ORGANICS BY GC/MS (EPA 8260)

(continued)

**Laboratory Reference #:** KJC 11589**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00**Sampled:**

06/22/00

06/22/00

06/22/00

**Received:**

06/22/00

06/22/00

06/22/00

**Analyzed:**

06/27/00

06/27/00

06/27/00

**Reported:**

06/30/00

06/30/00

06/30/00

**Lab Sample I.D.**  
**Client Sample I.D.**

00060140

00060141

00060142

WCC-7S

WCC5S

WCC-11S

-W062200

-W062200

-W062200

**ANALYTE (CONT)****CAS  
NUMBER****DETECTION  
LIMIT****ug/l****SAMPLE RESULTS****ug/l****ug/l****ug/l**

Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<0.5

**SURROGATE  
RECOVERY****%RC****%RC****%RC**

**Dibromofluoromethane**  
**Toluene-d8**  
**4-Bromofluorobenzene**

95

100

100

94

94

92

117

114

114

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**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11589

<b>Sampled:</b>	06/22/00	06/21/00
<b>Received:</b>	06/22/00	06/22/00
<b>Analyzed:</b>	06/27/00	06/27/00
<b>Reported:</b>	06/30/00	06/30/00

<b>Lab Sample I.D.</b>	00060143	00060144
<b>Client Sample I.D.</b>	WCC-11S	TMW-14
	-D062200	-B062100

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION</b>	<b>SAMPLE RESULTS</b>	
		<b>LIMIT</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<0.5
Bromomethane	74-83-9	1.0	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5
Chloroethane	75-00-3	0.5	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5
Chloroform	67-66-3	0.5	<0.5	<0.5
Chloromethane	74-87-3	0.5	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	24	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	<0.5	<0.5
Toluene	108-88-3	0.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5
Trichloroethene	79-01-6	0.5	110	<0.5
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	11	<0.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5

## VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

**Laboratory Reference #:** KJC 11589      **Sampled:** 06/22/00      06/21/00  
**Client Project ID:** Boeing C-6      **Received:** 06/22/00      06/22/00  
**Client Project #:** 004016.00      **Analyzed:** 06/27/00      06/27/00  
      **Reported:** 06/30/00      06/30/00

**Lab Sample I.D.** 00060143      00060144  
**Client Sample I.D.** WCC-11S      TMW-14  
-D062200      -B062100

<b>ANALYTE (CONT)</b>	<b>CAS NUMBER</b>	<b>DETECTION</b>	<b>SAMPLE RESULTS</b>	
		<b>LIMIT</b>	<b>ug/l</b>	<b>ug/l</b>
Bromochloromethane	74-97-5	0.5	<0.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5
<b>SURROGATE RECOVERY</b>			<b>%RC</b>	<b>%RC</b>
<i>Dibromofluoromethane</i>			101	96
<i>Toluene-d8</i>			94	95
<i>4-Bromofluorobenzene</i>			115	112

**Kennedy Jenks Consultants**  
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**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

<b>Sampled:</b>	---	06/21/00	06/21/00	06/22/00
<b>Received:</b>	---	06/22/00	06/22/00	06/22/00
<b>Reported:</b>	06/30/00	06/30/00	06/30/00	06/30/00

Laboratory Reference #: KJC 11589

<b>Lab Sample I.D.</b>	MB	00060137	00060138	00060139
<b>Client Sample I.D.</b>	---	TMW-14-	WCC-4S	TMW-15
		-W062100	-W062100	-W062200

**CCR METALS**

<b>ANALYTE</b>	<b>DATE TESTED</b>	<b>EPA METHOD</b>	<b>DETECTION LIMIT</b> <i>mg/l</i>	<b>SAMPLE RESULTS</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>
Antimony	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Barium	06/28/00	6010	0.01	<0.01	0.19	0.33	0.076	
Beryllium	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	06/22/00	7196	0.01	<0.01	0.017	0.012	0.012	<0.01
Chromium (Total)	06/28/00	6010	0.01	<0.01	0.015	0.012	0.017	
Cobalt	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Copper	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lead	06/28/00	6010	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Mercury	06/28/00	7471	0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	06/28/00	6010	0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nickel	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Selenium	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Silver	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Thallium	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Zinc	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01	0.037

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
2151 Michelson Dr., Suite 100  
Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

**Sampled:** 06/22/00      **Received:** 06/22/00      **Reported:** 06/30/00

**Laboratory Reference #:** KJC 11589

<i>Lab Sample I.D.</i>	00060140	00060141	00060142	00060143
<i>Client Sample I.D.</i>	WCC-7S	WCC5S	WCC-11S	WCC-11S
	-W062200	-W062200	-W062200	-D062200

CCR METALS

ANALYTE	DATE TESTED	EPA METHOD	DETECTION LIMIT	SAMPLE RESULTS			
				mg/l	mg/l	mg/l	mg/l
Antimony	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Barium	06/28/00	6010	0.01	0.18	0.24	0.083	0.083
Beryllium	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	06/22/00	7196	0.01	0.012	<0.01	<0.01	<0.01
Chromium (Total)	06/28/00	6010	0.01	0.013	<0.01	0.015	0.015
Cobalt	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Copper	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Lead	06/28/00	6010	0.05	<0.05	<0.05	<0.05	<0.05
Mercury	06/28/00	7471	0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	06/28/00	6010	0.05	<0.05	<0.05	<0.05	<0.05
Nickel	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Silver	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Thallium	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Zinc	06/28/00	6010	0.01	0.011	0.024	0.020	<0.01

## QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 06/27/00

Laboratory Sample No : 00060173

Laboratory Reference No : KJC 11589

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
1,1-Dichloroethene	0.0	20	20	19	100	95	5
Benzene	0.0	20	20	20	100	100	0
Trichloroethene	0.0	20	21	21	105	105	0
Toluene	0.0	20	18	18	90	90	0
Chlorobenzene	0.0	20	20	20	100	100	0

Definition of Terms :

R1                  Results Of First Analysis

SP                  Spike Concentration Added to Sample

MS                  Matrix Spike Results

MSD                Matrix Spike Duplicate Results

PR1                Percent Recovery Of MS:  $\{(MS-R1) / SP\} \times 100$

PR2                Percent Recovery Of MSD:  $\{(MSD-R1) / SP\} \times 100$

RPD                Relative Percent Difference:  $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

## QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11589

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
Antimony	06/28/00	00060162	0.00	1.0	0.980	1.05	98	105	7
Arsenic	06/28/00	00060162	0.00	1.0	0.958	0.973	96	97	2
Barium	06/28/00	00060162	0.12	0.10	0.219	0.216	99	96	1
Beryllium	06/28/00	00060162	0.00	0.10	0.104	0.102	104	102	2
Cadmium	06/28/00	00060162	0.00	0.10	0.096	0.094	96	94	2
Chromium (Total )	06/28/00	00060162	0.025	0.10	0.125	0.120	100	95	4
Chromium ( VI )	06/22/00	00060142	0.00	0.10	0.108	0.108	108	108	0
Cobalt	06/28/00	00060162	0.00	0.10	0.087	0.084	87	84	4
Copper	06/28/00	00060162	0.00	0.10	0.095	0.095	95	95	0
Lead	06/28/00	00060162	0.00	0.50	0.477	0.473	95	95	1
Mercury	06/28/00	00060162	0.00	0.010	0.0101	0.0103	101	103	2
Molybdenum	06/28/00	00060162	0.00	0.50	0.503	0.513	101	103	2
Nickel	06/28/00	00060162	0.00	0.50	0.407	0.400	81	80	2
Selenium	06/28/00	00060162	0.00	1.00	0.997	0.997	100	100	0
Silver	06/28/00	00060162	0.00	0.10	0.089	0.090	89	90	1
Thallium	06/28/00	00060162	0.00	1.00	0.921	0.918	92	92	0
Vanadium	06/28/00	00060162	0.00	0.50	0.516	0.513	103	103	1
Zinc	06/28/00	00060162	0.00	0.10	0.095	0.094	95	94	1

### Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

## **SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST**

**POSSIBLE HAZARDS:** \_\_\_\_\_

Date 6-23-00

Report To RJS Purcell

Source of Samples Boeing C-6

Company Kennedy/Jenkins

Sampler Name Shane Scrimshire

2151 Michelson Dr. #100

Project No. 884016.00

Phone 949-261-1577

- (1) Write only one sample number in each space.  
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.  
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.  
(4) Preservation of sample.  
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

**SAMPLE RELINQUISHED BY:**

Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
Shane Scrimshire		K/S	6/23/00	9:21:2					
Tracy Niemann		OCA	6/23/00	12:11					

## **SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST**

**POSSIBLE HAZARDS:** \_\_\_\_\_

Date 6-23-00

Report To Russ Purcell

Source of Samples Boeing C-6

Company Kennedy / Jenks

Sampler Name Jane Scrimshire

82151 Michelson Dr. #100

Project No. 884816-22

Phone 949-361-1577

- (1) Write only one sample number in each space.  
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.  
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.  
(4) Preservation of sample.  
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
Shane Scrimshire		K/J	7/23/00	Q1Q					
Tsao Norman		OCA	7/23/00	12:12					



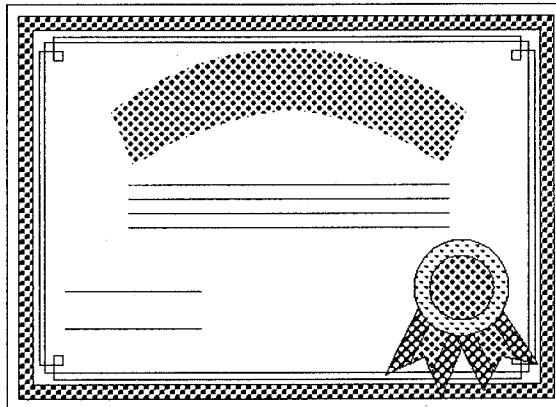
## ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067  
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

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KENNEDY/JENKS CONSULTANTS  
IRVINE, CA



ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.



## ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067  
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

### LABORATORY REPORT FORM

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

#### Laboratory Certification

(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print): Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 004016.00

Laboratory Reference: KJC 11594

Analytical Method: 8260, Metals

Date Sampled: 06-22/23-00

Date Received: 06/23/00

Date Reported: 07/07/00

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
2151 Michelson Dr., Suite 100  
Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11594

<b>Sampled:</b>	---	06/22/00	06/22/00	06/22/00
<b>Received:</b>	---	06/23/00	06/23/00	06/23/00
<b>Analyzed:</b>	06/29/00	06/29/00	06/29/00	06/29/00
<b>Reported:</b>	07/07/00	07/07/00	07/07/00	07/07/00
<b>Lab Sample I.D.</b>	MB	00060159	00060160	00060161
<b>Client Sample I.D.</b>	---	WCC-10S	WCC-10S	TMW-6
		-W062200	-B062200	-W062200

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>		<b>SAMPLE RESULTS</b>		
		<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	<0.5	<0.5	<0.5	<2.5
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0	<1.0	<5.0
Bromoform	75-25-2	0.5	<0.5	<0.5	<0.5	<2.5
Bromomethane	74-83-9	1.0	<1.0	<1.0	<1.0	<5.0
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5	<0.5	<2.5
Carbon tetrachloride	56-23-5	0.5	<0.5	1.3	<0.5	<2.5
Chlorobenzene	108-90-7	0.5	<0.5	<0.5	<0.5	<2.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5	<0.5	<2.5
Chloroethane	75-00-3	0.5	<0.5	<0.5	<0.5	<2.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5	<0.5	<2.5
Chloroform	67-66-3	0.5	<0.5	2.8	<0.5	100
Chloromethane	74-87-3	0.5	<0.5	<0.5	<0.5	<2.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	0.94	<0.5	<2.5
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5	<0.5	<2.5
1,1-Dichloroethene	75-35-4	0.5	<0.5	34	<0.5	<2.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5	<0.5	<2.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5	<0.5	<2.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5	<0.5	<2.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5	<0.5	<2.5
Ethylbenzene	100-41-4	0.5	<0.5	<0.5	<0.5	<2.5
Methylene chloride	75-09-2	2.5	<2.5	<2.5	<2.5	<13
Styrene	100-42-5	0.5	<0.5	<0.5	<0.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5	<2.5
Tetrachloroethene	127-18-4	0.5	<0.5	3.0	<0.5	<2.5
Toluene	108-88-3	0.5	<0.5	<0.5	<0.5	<2.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<0.5	<0.5	<2.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5	<0.5	<2.5
Trichloroethene	79-01-6	0.5	<0.5	160	<0.5	540
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5	<0.5	<2.5
Vinyl acetate	108-05-4	1.0	<1.0	<1.0	<1.0	<5.0
Vinyl chloride	75-01-4	0.5	<0.5	<0.5	<0.5	<2.5
Total Xylenes	1330-20-7	1.0	<1.0	<1.0	<1.0	<5.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5	<0.5	<2.5
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	<0.5	<0.5	<2.5
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5	<0.5	<2.5

INT m.m.

Orange Coast Analytical, Inc

## VOLATILE ORGANICS BY GC/MS (EPA 8260)

(continued)

**Laboratory Reference #:** KJC 11594**Sampled:** --- 06/22/00 06/22/00 06/22/00**Received:** --- 06/23/00 06/23/00 06/23/00**Analyzed:** 06/29/00 06/29/00 06/29/00 06/29/00**Reported:** 07/07/00 07/07/00 07/07/00 07/07/00**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

<b>Lab Sample I.D.</b>	MB	00060159	00060160	00060161
<b>Client Sample I.D.</b>	---	WCC-10S	WCC-10S	TMW-6
		-W062200	-B062200	-W062200

<b>ANALYTE (CONT)</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>	<b>SAMPLE RESULTS</b>			
			<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>
Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<0.5	<2.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<0.5	<2.5
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<0.5	<2.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<0.5	<2.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<0.5	<2.5
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<0.5	<2.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5	<2.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<0.5	<2.5
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<0.5	<2.5
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<0.5	<2.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<0.5	<2.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<0.5	<2.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<0.5	<2.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<0.5	<2.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<0.5	<2.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<0.5	<2.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<0.5	<2.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<0.5	<2.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<0.5	<2.5
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<0.5	<2.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<0.5	<2.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<1.0	<5.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<0.5	<2.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<0.5	<2.5
Naphthalene	91-20-3	0.5	<0.5	<0.5	<0.5	<2.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<0.5	<2.5

<b>SURROGATE RECOVERY</b>	%RC	%RC	%RC	%RC
<b>Dibromofluoromethane</b>	96	105	101	105
<b>Toluene-d8</b>	86	90	91	87
<b>4-Bromofluorobenzene</b>	118	120	122	124

INT min.

Orange Coast Analytical, Inc

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
2151 Michelson Dr., Suite 100  
Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**  
**Laboratory Reference #:** KJC 11594

<b>Sampled:</b>	06/22/00	06/22/00	06/22/00
<b>Received:</b>	06/23/00	06/23/00	06/23/00
<b>Analyzed:</b>	06/29/00	06/29/00	06/29/00
<b>Reported:</b>	07/07/00	07/07/00	07/07/00
<b>Lab Sample I.D.</b>	00060162	00060163	00060164
<b>Client Sample I.D.</b>	TMW-4	TMW-3	TMW-5
	-W062200	-W062200	-W062200

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>	<b>SAMPLE RESULTS</b>		
			<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	<5.0	<10	<13
Bromodichloromethane	75-27-4	1.0	<10	<20	<25
Bromoform	75-25-2	0.5	<5.0	<10	<13
Bromomethane	74-83-9	1.0	<10	<20	<25
Carbon Disulfide	75-15-0	0.5	<5.0	<10	<13
Carbon tetrachloride	56-23-5	0.5	<5.0	<10	<13
Chlorobenzene	108-90-7	0.5	<5.0	<10	<13
Chlorodibromomethane	124-48-1	0.5	<5.0	<10	<13
Chloroethane	75-00-3	0.5	<5.0	<10	<13
2-Chloroethyl vinyl ether	110-75-8	0.5	<5.0	<10	<13
Chloroform	67-66-3	0.5	17	<10	<13
Chloromethane	74-87-3	0.5	<5.0	<10	<13
1,1-Dichloroethane	75-34-3	0.5	22	<10	<13
1,2-Dichloroethane	107-06-2	0.5	15	<10	<13
1,1-Dichloroethene	75-35-4	0.5	890	96	650
trans-1,2-Dichloroethene	156-60-5	0.5	27	<10	<13
1,2-Dichloropropane	78-87-5	0.5	<5.0	<10	<13
cis-1,3-Dichloropropene	10061-01-5	0.5	<5.0	<10	<13
trans-1,3-Dichloropropene	10061-02-6	0.5	<5.0	<10	<13
Ethylbenzene	100-41-4	0.5	<5.0	<10	<13
Methylene chloride	75-09-2	2.5	<25	<50	<63
Styrene	100-42-5	0.5	<5.0	<10	<13
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<5.0	<10	<13
Tetrachloroethene	127-18-4	0.5	<5.0	<10	<13
Toluene	108-88-3	0.5	<5.0	<10	<13
1,1,1-Trichloroethane	71-55-6	0.5	<5.0	<10	<13
1,1,2-Trichloroethane	79-00-5	0.5	11	<10	<13
Trichloroethene	79-01-6	0.5	1,700	3,500	4,100
Trichlorofluoromethane	75-69-4	0.5	<5.0	<10	<13
Vinyl acetate	108-05-4	1.0	<10	<20	<25
Vinyl chloride	75-01-4	0.5	<5.0	<10	<13
Total Xylenes	1330-20-7	1.0	<10	<20	<25
Dichlorodifluoromethane	75-71-8	0.5	<5.0	<10	<13
cis-1,2-Dichloroethene	156-59-2	0.5	39	12	<13
2,2-Dichloropropane	594-20-7	0.5	<5.0	<10	<13

## VOLATILE ORGANICS BY GC/MS (EPA 8260)

(continued)

**Laboratory Reference #:** KJC 11594**Sampled:**

06/22/00

06/22/00

06/22/00

**Received:**

06/23/00

06/23/00

06/23/00

**Client Project ID:** Boeing C-6**Analyzed:**

06/29/00

06/29/00

06/29/00

**Client Project #:** 004016.00**Reported:**

07/07/00

07/07/00

07/07/00

**Lab Sample I.D.**  
**Client Sample I.D.**

00060162

00060163

00060164

TMW-4

TMW-3

TMW-5

-W062200

-W062200

-W062200

**ANALYTE (CONT)****CAS  
NUMBER****DETECTION  
LIMIT****ug/l**

			<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>
Bromochloromethane	74-97-5	0.5	<5.0	<10	<13
1,1-Dichloropropene	563-58-6	0.5	<5.0	<10	<13
Dibromomethane	74-95-3	0.5	<5.0	<10	<13
1,2-Dibromoethane	106-93-4	0.5	<5.0	<10	<13
1,3-Dichloropropane	142-28-9	0.5	<5.0	<10	<13
Isopropylbenzene	98-82-8	0.5	<5.0	<10	<13
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<5.0	<10	<13
1,2,3-Trichloropropane	96-18-4	0.5	<5.0	<10	<13
Bromobenzene	108-86-1	0.5	<5.0	<10	<13
n-Propylbenzene	103-65-1	0.5	<5.0	<10	<13
2-Chlorotoluene	95-49-8	0.5	<5.0	<10	<13
1,3,5-Trimethylbenzene	108-67-8	0.5	<5.0	<10	<13
4-Chlorotoluene	106-43-4	0.5	<5.0	<10	<13
tert-Butylbenzene	98-06-6	0.5	<5.0	<10	<13
1,2,4-Trimethylbenzene	95-63-6	0.5	<5.0	<10	<13
sec-Butylbenzene	135-98-8	0.5	<5.0	<10	<13
4-Isopropyltoluene	99-87-6	0.5	<5.0	<10	<13
1,3-Dichlorobenzene	541-73-1	0.5	<5.0	<10	<13
1,4-Dichlorobenzene	106-46-7	0.5	<5.0	<10	<13
n-Butylbenzene	104-51-8	0.5	<5.0	<10	<13
1,2-Dichlorobenzene	95-50-1	0.5	<5.0	<10	<13
1-2-Dibromo-3-CPA	96-12-8	1.0	<10	<20	<25
1,2,4-Trichlorobenzene	120-82-1	0.5	<5.0	<10	<13
Hexachlorobutadiene	87-68-3	0.5	<5.0	<10	<13
Naphthalene	91-20-3	0.5	<5.0	<10	<13
1,2,3-Trichlorobenzene	87-61-6	0.5	<5.0	<10	<13

**SURROGATE  
RECOVERY****Dibromofluoromethane**  
**Toluene-d8**  
**4-Bromofluorobenzene**

	<b>%RC</b>	<b>%RC</b>	<b>%RC</b>
<b>Dibromofluoromethane</b>	100	99	103
<b>Toluene-d8</b>	104	102	103
<b>4-Bromofluorobenzene</b>	125	122	127

INT\_m.n.

Orange Coast Analytical, Inc

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
2151 Michelson Dr., Suite 100  
Irvine, CA 92612

Client Project ID: Boeing C-6  
Client Project #: 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11594

<b>Sampled:</b>	06/23/00	06/23/00	06/23/00
<b>Received:</b>	06/23/00	06/23/00	06/23/00
<b>Analyzed:</b>	06/29/00	06/29/00	06/29/00
<b>Reported:</b>	07/07/00	07/07/00	07/07/00

<b>Lab Sample I.D.</b>	00060165	00060166	00060167
<b>Client Sample I.D.</b>	TMW-9	TMW-1	TMW-7
	-W062300	-W062300	-W062300

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>	<b>SAMPLE RESULTS</b>		
			<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	<5.0	<2.5	<10
Bromodichloromethane	75-27-4	1.0	<10	<5.0	<20
Bromoform	75-25-2	0.5	<5.0	<2.5	<10
Bromomethane	74-83-9	1.0	<10	<5.0	<20
Carbon Disulfide	75-15-0	0.5	<5.0	<2.5	<10
Carbon tetrachloride	56-23-5	0.5	<5.0	<2.5	<10
Chlorobenzene	108-90-7	0.5	<5.0	<2.5	<10
Chlorodibromomethane	124-48-1	0.5	<5.0	<2.5	<10
Chloroethane	75-00-3	0.5	<5.0	<2.5	<10
2-Chloroethyl vinyl ether	110-75-8	0.5	<5.0	<2.5	<10
Chloroform	67-66-3	0.5	<5.0	<2.5	<10
Chloromethane	74-87-3	0.5	<5.0	<2.5	<10
1,1-Dichloroethane	75-34-3	0.5	<5.0	<2.5	<10
1,2-Dichloroethane	107-06-2	0.5	<5.0	<2.5	<10
1,1-Dichloroethene	75-35-4	0.5	220	340	850
trans-1,2-Dichloroethene	156-60-5	0.5	<5.0	<2.5	24
1,2-Dichloropropane	78-87-5	0.5	<5.0	<2.5	<10
cis-1,3-Dichloropropene	10061-01-5	0.5	<5.0	<2.5	<10
trans-1,3-Dichloropropene	10061-02-6	0.5	<5.0	<2.5	<10
Ethylbenzene	100-41-4	0.5	<5.0	<2.5	<10
Methylene chloride	75-09-2	2.5	<25	<13	<50
Styrene	100-42-5	0.5	<5.0	<2.5	<10
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<5.0	<2.5	<10
Tetrachloroethene	127-18-4	0.5	<5.0	<2.5	<10
Toluene	108-88-3	0.5	<5.0	<2.5	<10
1,1,1-Trichloroethane	71-55-6	0.5	<5.0	<2.5	<10
1,1,2-Trichloroethane	79-00-5	0.5	<5.0	<2.5	<10
Trichloroethene	79-01-6	0.5	1,000	350	2,000
Trichlorofluoromethane	75-69-4	0.5	<5.0	19	<10
Vinyl acetate	108-05-4	1.0	<10	<5.0	<20
Vinyl chloride	75-01-4	0.5	<5.0	<2.5	<10
Total Xylenes	1330-20-7	1.0	<10	<5.0	<20
Dichlorodifluoromethane	75-71-8	0.5	<5.0	<2.5	<10
cis-1,2-Dichloroethene	156-59-2	0.5	<5.0	<2.5	34
2,2-Dichloropropane	594-20-7	0.5	<5.0	<2.5	<10

INT\_mw

Orange Coast Analytical, Inc

## VOLATILE ORGANICS BY GC/MS (EPA 8260)

(continued)

Laboratory Reference #: KJC 11594

Client Project ID: Boeing C-6  
Client Project #: 004016.00*Sampled:*

06/23/00

06/23/00

06/23/00

*Received:*

06/23/00

06/23/00

06/23/00

*Analyzed:*

06/29/00

06/29/00

06/29/00

*Reported:*

07/07/00

07/07/00

07/07/00

*Lab Sample I.D.*  
*Client Sample I.D.*

00060165

00060166

00060167

TMW-9

TMW-1

TMW-7

-W062300

-W062300

-W062300

**ANALYTE (CONT)****CAS NUMBER****DETECTION LIMIT***ug/l***SAMPLE RESULTS***ug/l**ug/l**ug/l*

Bromochloromethane	74-97-5	0.5	<5.0	<2.5	<10
1,1-Dichloropropene	563-58-6	0.5	<5.0	<2.5	<10
Dibromomethane	74-95-3	0.5	<5.0	<2.5	<10
1,2-Dibromoethane	106-93-4	0.5	<5.0	<2.5	<10
1,3-Dichloropropane	142-28-9	0.5	<5.0	<2.5	<10
Isopropylbenzene	98-82-8	0.5	<5.0	<2.5	<10
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<5.0	<2.5	<10
1,2,3-Trichloropropane	96-18-4	0.5	<5.0	<2.5	<10
Bromobenzene	108-86-1	0.5	<5.0	<2.5	<10
n-Propylbenzene	103-65-1	0.5	<5.0	<2.5	<10
2-Chlorotoluene	95-49-8	0.5	<5.0	<2.5	<10
1,3,5-Trimethylbenzene	108-67-8	0.5	<5.0	<2.5	<10
4-Chlorotoluene	106-43-4	0.5	<5.0	<2.5	<10
tert-Butylbenzene	98-06-6	0.5	<5.0	<2.5	<10
1,2,4-Trimethylbenzene	95-63-6	0.5	<5.0	<2.5	<10
sec-Butylbenzene	135-98-8	0.5	<5.0	<2.5	<10
4-Isopropyltoluene	99-87-6	0.5	<5.0	<2.5	<10
1,3-Dichlorobenzene	541-73-1	0.5	<5.0	<2.5	<10
1,4-Dichlorobenzene	106-46-7	0.5	<5.0	<2.5	<10
n-Butylbenzene	104-51-8	0.5	<5.0	<2.5	<10
1,2-Dichlorobenzene	95-50-1	0.5	<5.0	<2.5	<10
1-2-Dibromo-3-CPA	96-12-8	1.0	<10	<5.0	<20
1,2,4-Trichlorobenzene	120-82-1	0.5	<5.0	<2.5	<10
Hexachlorobutadiene	87-68-3	0.5	<5.0	<2.5	<10
Naphthalene	91-20-3	0.5	<5.0	<2.5	<10
1,2,3-Trichlorobenzene	87-61-6	0.5	<5.0	<2.5	<10

**SURROGATE RECOVERY**

%RC

%RC

%RC

*Dibromofluoromethane*  
*Toluene-d8*  
*4-Bromofluorobenzene*

105

105

98

100

103

100

124

120

122

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
2151 Michelson Dr., Suite 100  
Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11594

<b>Sampled:</b>	06/23/00	06/23/00	06/23/00
<b>Received:</b>	06/23/00	06/23/00	06/23/00
<b>Analyzed:</b>	06/29/00	06/29/00	06/29/00
<b>Reported:</b>	07/07/00	07/07/00	07/07/00
<b>Lab Sample I.D.</b>	00060168	00060169	00060170
<b>Client Sample I.D.</b>	TMW-8	BL-3	BL-3
	-W062300	-W062300	-R062300

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>	<b>SAMPLE RESULTS</b>		
			<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	23	<13	<0.5
Bromodichloromethane	75-27-4	1.0	<25	<25	<1.0
Bromoform	75-25-2	0.5	<13	<13	<0.5
Bromomethane	74-83-9	1.0	<25	<25	<1.0
Carbon Disulfide	75-15-0	0.5	<13	<13	<0.5
Carbon tetrachloride	56-23-5	0.5	<13	<13	<0.5
Chlorobenzene	108-90-7	0.5	<13	<13	<0.5
Chlorodibromomethane	124-48-1	0.5	<13	<13	<0.5
Chloroethane	75-00-3	0.5	<13	<13	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<13	<13	<0.5
Chloroform	67-66-3	0.5	<13	<13	<0.5
Chloromethane	74-87-3	0.5	<13	<13	<0.5
1,1-Dichloroethane	75-34-3	0.5	45	<13	<0.5
1,2-Dichloroethane	107-06-2	0.5	22	<13	<0.5
1,1-Dichloroethene	75-35-4	0.5	2,300	<13	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	56	<13	<0.5
1,2-Dichloropropane	78-87-5	0.5	<13	<13	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<13	<13	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<13	<13	<0.5
Ethylbenzene	100-41-4	0.5	<13	<13	<0.5
Methylene chloride	75-09-2	2.5	<63	<63	<2.5
Styrene	100-42-5	0.5	<13	<13	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<13	<13	<0.5
Tetrachloroethene	127-18-4	0.5	<13	59	<0.5
Toluene	108-88-3	0.5	<13	<13	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<13	<13	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	13	<13	<0.5
Trichloroethene	79-01-6	0.5	2,900	1,300	<0.5
Trichlorofluoromethane	75-69-4	0.5	<13	<13	<0.5
Vinyl acetate	108-05-4	1.0	<25	<25	<1.0
Vinyl chloride	75-01-4	0.5	<13	<13	<0.5
Total Xylenes	1330-20-7	1.0	<25	<25	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<13	<13	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	81	<13	<0.5
2,2-Dichloropropane	594-20-7	0.5	<13	<13	<0.5

## VOLATILE ORGANICS BY GC/MS (EPA 8260)

(continued)

<b>Laboratory Reference #:</b>	KJC 11594	<b>Sampled:</b>	06/23/00	06/23/00	06/23/00
<b>Client Project ID:</b>	Boeing C-6	<b>Received:</b>	06/23/00	06/23/00	06/23/00
<b>Client Project #:</b>	004016.00	<b>Analyzed:</b>	06/29/00	06/29/00	06/29/00
		<b>Reported:</b>	07/07/00	07/07/00	07/07/00
		<i>Lab Sample I.D.</i>	00060168	00060169	00060170
		<i>Client Sample I.D.</i>	TMW-8	BL-3	BL-3
			-W062300	-W062300	-R062300
<b>ANALYTE (CONT)</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>	<b>SAMPLE RESULTS</b>		
		<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>
Bromochloromethane	74-97-5	0.5	<13	<13	<0.5
1,1-Dichloropropene	563-58-6	0.5	<13	<13	<0.5
Dibromomethane	74-95-3	0.5	<13	<13	<0.5
1,2-Dibromoethane	106-93-4	0.5	<13	<13	<0.5
1,3-Dichloropropane	142-28-9	0.5	<13	<13	<0.5
Isopropylbenzene	98-82-8	0.5	<13	<13	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<13	<13	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<13	<13	<0.5
Bromobenzene	108-86-1	0.5	<13	<13	<0.5
n-Propylbenzene	103-65-1	0.5	<13	<13	<0.5
2-Chlorotoluene	95-49-8	0.5	<13	<13	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<13	<13	<0.5
4-Chlorotoluene	106-43-4	0.5	<13	<13	<0.5
tert-Butylbenzene	98-06-6	0.5	<13	<13	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<13	<13	<0.5
sec-Butylbenzene	135-98-8	0.5	<13	<13	<0.5
4-Isopropyltoluene	99-87-6	0.5	<13	<13	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<13	<13	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<13	<13	<0.5
n-Butylbenzene	104-51-8	0.5	<13	<13	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<13	<13	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<25	<25	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<13	<13	<0.5
Hexachlorobutadiene	87-68-3	0.5	<13	<13	<0.5
Naphthalene	91-20-3	0.5	<13	<13	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<13	<13	<0.5
	<b>SURROGATE RECOVERY</b>		%RC	%RC	%RC
	<i>Dibromofluoromethane</i>		101	97	103
	<i>Toluene-d8</i>		100	104	99
	<i>4-Bromofluorobenzene</i>		126	125	120

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
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Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

<b>SAMPLE DESCRIPTION (Water)</b>	<b>Sampled:</b>	---	06/22/00	06/22/00	06/22/00
	<b>Received:</b>	---	06/23/00	06/23/00	06/23/00
	<b>Reported:</b>	07/07/00	07/07/00	07/07/00	07/07/00

Laboratory Reference #: KJC 11594

	<b>Lab Sample I.D.</b>	MB	00060159	00060161	00060162
	<b>Client Sample I.D.</b>	---	WCC-10S	TMW-6	TMW-4
			-W062200	-W062200	-W062200

**CCR METALS**

<b>ANALYTE</b>	<b>DATE TESTED</b>	<b>EPA METHOD</b>	<b>DETECTION LIMIT mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>
Antimony	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Barium	06/28/00	6010	0.01	<0.01	0.029	0.20	0.12
Beryllium	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	06/23/00	7196	0.01	<0.01	<0.01	<0.01	0.020
Chromium (Total)	06/28/00	6010	0.01	<0.01	0.012	0.021	0.025
Cobalt	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Copper	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Lead	06/28/00	6010	0.05	<0.05	<0.05	<0.05	<0.05
Mercury	06/28/00	7471	0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	06/28/00	6010	0.05	<0.05	<0.05	<0.05	<0.05
Nickel	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Silver	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Thallium	06/28/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Zinc	06/28/00	6010	0.01	<0.01	<0.01	<0.01	<0.01

**Kennedy Jenks Consultants**

ATTN: Mr. Rus Purcell  
 2151 Michelson Dr., Suite 100  
 Irvine, CA 92612

Client Project ID: Boeing C-6

Client Project #: 004016.00

**SAMPLE DESCRIPTION (Water)**

<b>Sampled:</b>	06/22/00	06/22/00	06/23/00	06/23/00
<b>Received:</b>	06/23/00	06/23/00	06/23/00	06/23/00
<b>Reported:</b>	07/07/00	07/07/00	07/07/00	07/07/00

Laboratory Reference #: KJC 11594

<b>Lab Sample I.D.</b>	00060163	00060164	00060165	00060166
<b>Client Sample I.D.</b>	TMW-3	TMW-5	TMW-9	TMW-1
	-W062200	-W062200	-W062300	-W062300

**CCR METALS**

<b>ANALYTE</b>	<b>DATE TESTED</b>	<b>EPA METHOD</b>	<b>DETECTION LIMIT</b>	<b>SAMPLE RESULTS</b>			
			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>
Antimony	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Barium	07/06/00	6010	0.01	0.11	0.067	0.14	0.28
Beryllium	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	06/23/00	7196	0.01	0.012	<0.01	<0.01	<0.01
Chromium (Total)	07/06/00	6010	0.01	0.036	0.021	0.033	0.056
Cobalt	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Copper	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Lead	07/06/00	6010	0.05	<0.05	<0.05	<0.05	<0.05
Mercury	06/28/00	7471	0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	07/06/00	6010	0.05	<0.05	<0.05	<0.05	<0.05
Nickel	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Silver	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Thallium	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	07/06/00	6010	0.01	<0.01	<0.01	<0.01	0.010
Zinc	07/06/00	6010	0.01	0.031	0.013	0.028	0.033

**Kennedy Jenks Consultants**

ATTN: Mr. Rus Purcell  
 2151 Michelson Dr., Suite 100  
 Irvine, CA 92612

Client Project ID: Boeing C-6

Client Project #: 004016.00

**SAMPLE DESCRIPTION (Water)**

<i>Sampled:</i>	06/23/00	06/23/00	06/23/00	06/23/00
<i>Received:</i>	06/23/00	06/23/00	06/23/00	06/23/00
<i>Reported:</i>	07/07/00	07/07/00	07/07/00	07/07/00

Laboratory Reference #: KJC 11594

<i>Lab Sample I.D.</i>	00060167	00060168	00060169	00060170
<i>Client Sample I.D.</i>	TMW-7	TMW-8	BL-3	BL-3
	-W062300	-W062300	-W062300	-R062300

**CCR METALS**

<b>ANALYTE</b>	<b>DATE TESTED</b>	<b>EPA METHOD</b>	<b>DETECTION LIMIT</b> <i>mg/l</i>	<b>SAMPLE RESULTS</b>		
			<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>
Antimony	07/06/00	6010	0.1	<0.1	<0.1	<0.1
Arsenic	07/06/00	6010	0.1	<0.1	<0.1	<0.1
Barium	07/06/00	6010	0.01	0.19	0.10	0.41
Beryllium	07/06/00	6010	0.01	<0.01	<0.01	<0.01
Cadmium	07/06/00	6010	0.01	<0.01	<0.01	<0.01
Chromium (VI)	06/23/00	7196	0.01	<0.01	<0.01	<0.01
Chromium (Total)	07/06/00	6010	0.01	0.047	<0.01	0.029
Cobalt	07/06/00	6010	0.01	<0.01	<0.01	<0.01
Copper	07/06/00	6010	0.01	0.017	<0.01	0.018
Lead	07/06/00	6010	0.05	<0.05	<0.05	<0.05
Mercury	06/28/00	7471	0.001	<0.001	<0.001	<0.001
Molybdenum	07/06/00	6010	0.05	<0.05	<0.05	<0.05
Nickel	07/06/00	6010	0.01	0.015	<0.01	<0.01
Selenium	07/06/00	6010	0.1	<0.1	<0.1	<0.1
Silver	07/06/00	6010	0.01	<0.01	<0.01	<0.01
Thallium	07/06/00	6010	0.1	<0.1	<0.1	<0.1
Vanadium	07/06/00	6010	0.01	0.027	<0.01	<0.01
Zinc	07/06/00	6010	0.01	0.12	0.035	0.029

INT m.m.

Orange Coast Analytical, Inc

## QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 06/29/00

Laboratory Sample No : 00060161

Laboratory Reference No : KJC 11594

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
1,1-Dichloroethene	0	20	19	20	95	100	5
Benzene	0.0	20	20	20	100	100	0
Trichloroethene	21	20	36	35	75	71	2
Toluene	0.0	20	19	19	95	95	0
Chlorobenzene	0.0	20	22	22	110	110	0

### Definition of Terms :

R1                  Results Of First Analysis

SP                  Spike Concentration Added to Sample

MS                  Matrix Spike Results

MSD                Matrix Spike Duplicate Results

PR1                Percent Recovery Of MS:  $\{(MS-R1) / SP\} \times 100$

PR2                Percent Recovery Of MSD:  $\{(MSD-R1) / SP\} \times 100$

RPD                Relative Percent Difference:  $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

## QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11594

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
*Antimony	07/06/00	00060169	0.00	1.00	0.757	0.798	76	80	5
Antimony	07/06/00	OCA 100	0.00	0.50	0.560	0.500	112	100	11
Arsenic	07/06/00	00060169	0.00	1.00	1.13	1.14	113	114	1
Barium	07/06/00	00060169	0.41	0.100	0.507	0.506	97	96	0
Beryllium	07/06/00	00060169	0.00	0.100	0.117	0.119	117	119	2
Cadmium	07/06/00	00060169	0.00	0.100	0.116	0.117	116	117	1
Chromium (Total )	07/06/00	00060169	0.029	0.100	0.138	0.138	109	109	0
Chromium ( VI )	06/23/00	00060170	0.00	0.10	0.090	0.086	90	86	4
Cobalt	07/06/00	00060169	0.00	0.100	0.098	0.100	98	100	2
Copper	07/06/00	00060169	0.00	0.100	0.120	0.120	120	120	0
Lead	07/06/00	00060169	0.00	0.50	0.473	0.500	95	100	6
Mercury	06/28/00	00060162	0.00	0.010	0.0101	0.0103	101	103	2
Molybdenum	07/06/00	00060169	0.00	0.50	0.506	0.516	101	103.2	2
Nickel	07/06/00	00060169	0.00	0.500	0.455	0.458	91	92	1
*Selenium	07/06/00	00060169	0.00	1.00	1.26	1.29	126	129	2
Selenium	07/06/00	OCA 100	0.00	0.50	0.516	0.518	103	104	0
Silver	07/06/00	00060169	0.00	0.100	0.112	0.113	112	113	1
Thallium	07/06/00	00060169	0.00	1.00	0.966	0.973	97	97	1
Vanadium	07/06/00	00060169	0.00	0.500	0.566	0.571	113	114	1
Zinc	07/06/00	00060169	0.030	0.100	0.119	0.118	89	88	1

\*Matrix Interference

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

## QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11594

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
*Antimony	07/06/00	00060184	0.00	0.50	0.272	0.336	54	67	21
Antimony	07/06/00	OCA 100	0.00	0.50	0.455	0.504	91	101	10
Arsenic	07/06/00	00060184	0.00	1.00	1.03	1.03	103	103	0
Barium	07/06/00	00060184	0.00	0.100	0.117	0.116	117	116	1
Beryllium	07/06/00	00060184	0.00	0.100	0.120	0.120	120	120	0
Cadmium	07/06/00	00060184	0.00	0.100	0.120	0.120	120	120	0
*Chromium (Total )	07/06/00	00060184	0.029	0.100	0.078	0.077	49	48	2
Chromium (Total )	07/06/00	OCA 100	0.000	0.100	0.115	0.115	115	115	0
Chromium ( VI )	06/23/00	00060170	0.00	0.10	0.090	0.086	90	86	4
Cobalt	07/06/00	00060184	0.00	0.100	0.106	0.105	106	105	1
Copper	07/06/00	00060184	0.017	0.100	0.130	0.130	113	113	0
Lead	07/06/00	00060184	0.00	0.50	0.507	0.506	101	101	0
Mercury	06/28/00	00060162	0.00	0.010	0.0101	0.0103	101	103	2
Molybdenum	07/06/00	00060184	0.00	0.50	0.500	0.504	100	100.8	1
Nickel	07/06/00	00060184	0.00	0.500	0.497	0.494	99	99	1
*Selenium	07/06/00	00060184	0.00	0.50	0.612	0.595	122	119	3
Selenium	07/06/00	OCA 100	0.00	0.50	0.497	0.497	99	99	0
Silver	07/06/00	00060184	0.00	0.100	0.110	0.111	110	111	1
Thallium	07/06/00	00060184	0.00	1.00	1.02	1.02	102	102	0
Vanadium	07/06/00	00060184	0.00	0.500	0.563	0.561	113	112	0
Zinc	07/06/00	00060184	0.021	0.100	0.129	0.129	108	108	0

\*Matrix Interference

Definition of Terms :

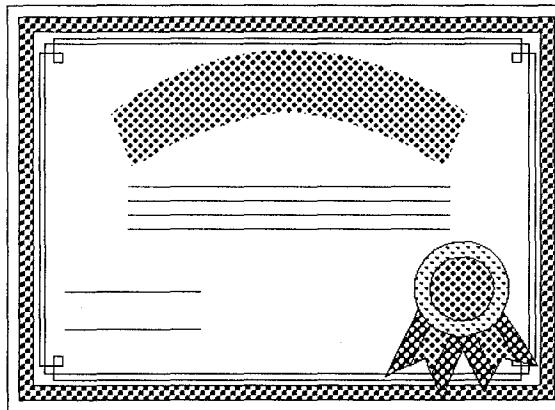
R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$



## ORANGE COAST ANALYTICAL, INC.

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067  
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

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JUL 18 2006  
KENNEDY KENNEDY CONSULTANTS  
PHOENIX, AZ

ORANGE COAST ANALYTICAL THANKS YOU FOR YOUR BUSINESS

THE FOLLOWING PAGES ARE THE ANALYSIS REPORT

ON THE SAMPLES YOU REQUESTED.

IF YOU HAVE ANY QUESTIONS REGARDING THIS REPORT

PLEASE FEEL FREE TO CONTACT US.



## ***ORANGE COAST ANALYTICAL, INC.***

3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067  
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

### **LABORATORY REPORT FORM**

Laboratory Name: ORANGE COAST ANALYTICAL, INC.

Address: 3002 Dow Suite 532 Tustin, CA 92780

Telephone: (714) 832-0064

Laboratory Certification

(ELAP) No.: 1416 Expiration Date: 2001

Laboratory Director's Name (Print) : Mark Noorani

Client: Kennedy Jenks Consultants

Project No.: Boeing C-6

Project Name: 004016.00

Laboratory Reference: KJC 11598

Analytical Method: 8260, Metals

Date Sampled: 06/26/00

Date Received: 06/27/00

Date Reported: 07/10/00

Sample Matrix: Water

Chain of Custody Received: Yes

Laboratory Director's Signature: Mark Noorani

**Kennedy Jenks Consultants**  
ATTN: Mr. Rus Purcell  
2151 Michelson Dr., Suite 100  
Irvine, CA 92612

Client Project ID: Boeing C-6  
Client Project #: 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11598

<b>Sampled:</b>	---	06/26/00	06/26/00	06/26/00
<b>Received:</b>	---	06/27/00	06/27/00	06/27/00
<b>Analyzed:</b>		06/30/00	06/30/00	07/05/00
<b>Reported:</b>	07/10/00	07/10/00	07/10/00	07/10/00
<b>Lab Sample I.D.</b>	MB	00060175	00060176	00060177
<b>Client Sample I.D.</b>	---	BL-2	BL-2	BL-1
		-W062600	-B062600	-W062600

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Bromodichloromethane	75-27-4	1.0	<1.0	<10	<1.0	<1.0	<1.0
Bromoform	75-25-2	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Bromomethane	74-83-9	1.0	<1.0	<10	<1.0	<1.0	<1.0
Carbon Disulfide	75-15-0	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Carbon tetrachloride	56-23-5	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Chlorobenzene	108-90-7	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Chlorodibromomethane	124-48-1	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Chloroethane	75-00-3	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Chloroform	67-66-3	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Chloromethane	74-87-3	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
1,1-Dichloroethane	75-34-3	0.5	<0.5	<5.0	<0.5	<0.5	0.85
1,2-Dichloroethane	107-06-2	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
1,1-Dichloroethene	75-35-4	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
1,2-Dichloropropane	78-87-5	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Ethylbenzene	100-41-4	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Methylene chloride	75-09-2	2.5	<2.5	<25	<2.5	<2.5	<2.5
Styrene	100-42-5	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Tetrachloroethene	127-18-4	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Toluene	108-88-3	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
1,1,1-Trichloroethane	71-55-6	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Trichloroethene	79-01-6	0.5	<0.5	940	<0.5	3.1	
Trichlorofluoromethane	75-69-4	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Vinyl acetate	108-05-4	1.0	<1.0	<10	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
Total Xylenes	1330-20-7	1.0	<1.0	<10	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<5.0	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	156-59-2	0.5	<0.5	<5.0	<0.5	20	
2,2-Dichloropropane	594-20-7	0.5	<0.5	<5.0	<0.5	<0.5	<0.5

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #:	KJC 11598	<b>Sampled:</b>	---	06/26/00	06/26/00	06/26/00
Client Project ID:	Boeing C-6	<b>Received:</b>	---	06/27/00	06/27/00	06/27/00
Client Project #:	004016.00	<b>Analyzed:</b>	01/00/00	06/30/00	06/30/00	07/05/00
		<b>Reported:</b>	07/10/00	07/10/00	07/10/00	07/10/00
		<i>Lab Sample I.D.</i>	MB	00060175	00060176	00060177
		<i>Client Sample I.D.</i>	---	BL-2	BL-2	BL-1
				-W062600	-B062600	-W062600
<b>ANALYTE (CONT)</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>		<b>SAMPLE RESULTS</b>		
		<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>
Bromochloromethane	74-97-5	0.5	<0.5	<5.0	<0.5	<0.5
1,1-Dichloropropene	563-58-6	0.5	<0.5	<5.0	<0.5	<0.5
Dibromomethane	74-95-3	0.5	<0.5	<5.0	<0.5	<0.5
1,2-Dibromoethane	106-93-4	0.5	<0.5	<5.0	<0.5	<0.5
1,3-Dichloropropane	142-28-9	0.5	<0.5	<5.0	<0.5	<0.5
Isopropylbenzene	98-82-8	0.5	<0.5	<5.0	<0.5	<0.5
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<5.0	<0.5	<0.5
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<5.0	<0.5	<0.5
Bromobenzene	108-86-1	0.5	<0.5	<5.0	<0.5	<0.5
n-Propylbenzene	103-65-1	0.5	<0.5	<5.0	<0.5	<0.5
2-Chlorotoluene	95-49-8	0.5	<0.5	<5.0	<0.5	<0.5
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<5.0	<0.5	<0.5
4-Chlorotoluene	106-43-4	0.5	<0.5	<5.0	<0.5	<0.5
tert-Butylbenzene	98-06-6	0.5	<0.5	<5.0	<0.5	<0.5
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<5.0	<0.5	<0.5
sec-Butylbenzene	135-98-8	0.5	<0.5	<5.0	<0.5	<0.5
4-Isopropyltoluene	99-87-6	0.5	<0.5	<5.0	<0.5	<0.5
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<5.0	<0.5	<0.5
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<5.0	<0.5	<0.5
n-Butylbenzene	104-51-8	0.5	<0.5	<5.0	<0.5	<0.5
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<5.0	<0.5	<0.5
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<10	<1.0	<1.0
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<5.0	<0.5	<0.5
Hexachlorobutadiene	87-68-3	0.5	<0.5	<5.0	<0.5	<0.5
Naphthalene	91-20-3	0.5	<0.5	<5.0	<0.5	<0.5
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<5.0	<0.5	<0.5
	<b>SURROGATE RECOVERY</b>		%RC	%RC	%RC	%RC
	<i>Dibromofluoromethane</i>		100	99	101	104
	<i>Toluene-d8</i>		100	100	102	94
	<i>4-Bromofluorobenzene</i>		121	122	123	115

**Kennedy Jenks Consultants**  
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Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11598

<b>Sampled:</b>	06/26/00	06/26/00	06/26/00	06/26/00
<b>Received:</b>	06/27/00	06/27/00	06/27/00	06/27/00
<b>Analyzed:</b>	07/05/00	06/30/00	06/30/00	07/05/00
<b>Reported:</b>	07/10/00	07/10/00	07/10/00	07/10/00
<b>Lab Sample I.D.</b>	00060178	00060179	00060180	00060181
<b>Client Sample I.D.</b>	WCC-3D	WCC-3D	TMW-16	TMW-2
	-W062600	-D062600	-W062600	-W062600

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>		<b>SAMPLE RESULTS</b>	
		<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	<0.5	<0.5	<0.5 <100
Bromodichloromethane	75-27-4	1.0	<1.0	<1.0	<1.0 <200
Bromoform	75-25-2	0.5	<0.5	<0.5	<0.5 <100
Bromomethane	74-83-9	1.0	<1.0	<1.0	<1.0 <200
Carbon Disulfide	75-15-0	0.5	<0.5	<0.5	<0.5 <100
Carbon tetrachloride	56-23-5	0.5	<0.5	<0.5	<0.5 <100
Chlorobenzene	108-90-7	0.5	<0.5	<0.5	<0.5 <100
Chlorodibromomethane	124-48-1	0.5	<0.5	<0.5	<0.5 <100
Chloroethane	75-00-3	0.5	<0.5	<0.5	<0.5 <100
2-Chloroethyl vinyl ether	110-75-8	0.5	<0.5	<0.5	<0.5 <100
Chloroform	67-66-3	0.5	<0.5	<0.5	<0.5 230
Chloromethane	74-87-3	0.5	<0.5	<0.5	<0.5 <100
1,1-Dichloroethane	75-34-3	0.5	<0.5	<0.5	<0.5 1,400
1,2-Dichloroethane	107-06-2	0.5	<0.5	<0.5	<0.5 <100
1,1-Dichloroethene	75-35-4	0.5	54	68	2.7 28,000
trans-1,2-Dichloroethene	156-60-5	0.5	<0.5	<0.5	<0.5 580
1,2-Dichloropropane	78-87-5	0.5	<0.5	<0.5	<0.5 <100
cis-1,3-Dichloropropene	10061-01-5	0.5	<0.5	<0.5	<0.5 <100
trans-1,3-Dichloropropene	10061-02-6	0.5	<0.5	<0.5	<0.5 <100
Ethylbenzene	100-41-4	0.5	<0.5	<0.5	<0.5 <100
Methylene chloride	75-09-2	2.5	<2.5	<2.5	<2.5 <500
Styrene	100-42-5	0.5	<0.5	<0.5	<0.5 <100
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5 <100
Tetrachloroethene	127-18-4	0.5	<0.5	<0.5	2.1 <100
Toluene	108-88-3	0.5	37	42	6.2 480
1,1,1-Trichloroethane	71-55-6	0.5	50	54	<0.5 1,900
1,1,2-Trichloroethane	79-00-5	0.5	<0.5	<0.5	<0.5 <100
Trichloroethene	79-01-6	0.5	9.9	11	2.9 <100
Trichlorofluoromethane	75-69-4	0.5	<0.5	<0.5	<0.5 28,000
Vinyl acetate	108-05-4	1.0	<1.0	<1.0	<1.0 <200
Vinyl chloride	75-01-4	0.5	<0.5	<0.5	<0.5 <100
Total Xylenes	1330-20-7	1.0	<1.0	<1.0	<1.0 <200
Dichlorodifluoromethane	75-71-8	0.5	<0.5	<0.5	<0.5 <100
cis-1,2-Dichloroethene	156-59-2	0.5	2.1	2.1	<0.5 850
2,2-Dichloropropane	594-20-7	0.5	<0.5	<0.5	<0.5 <100

VOLATILE ORGANICS BY GC/MS (EPA 8260) (continued)

Laboratory Reference #:	KJC 11598	<b>Sampled:</b>	06/26/00	06/26/00	06/26/00	06/26/00
Client Project ID:	Boeing C-6	<b>Received:</b>	06/27/00	06/27/00	06/27/00	06/27/00
Client Project #:	004016.00	<b>Analyzed:</b>	07/05/00	06/30/00	06/30/00	07/05/00
		<b>Reported:</b>	07/10/00	07/10/00	07/10/00	07/10/00
		<i>Lab Sample I.D.</i>	00060178	00060179	00060180	00060181
		<i>Client Sample I.D.</i>	WCC-3D -W062600	WCC-3D -W062600	TMW-16 -W062600	TMW-2 -W062600
<b>ANALYTE (CONT)</b>	<b>CAS NUMBER</b>	<b>DETECTION LIMIT</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>	<b>ug/l</b>
Bromochloromethane	74-97-5	0.5	<0.5	<0.5	<0.5	<100
1,1-Dichloropropene	563-58-6	0.5	<0.5	<0.5	<0.5	<100
Dibromomethane	74-95-3	0.5	<0.5	<0.5	<0.5	<100
1,2-Dibromoethane	106-93-4	0.5	<0.5	<0.5	<0.5	<100
1,3-Dichloropropane	142-28-9	0.5	<0.5	<0.5	<0.5	<100
Isopropylbenzene	98-82-8	0.5	<0.5	<0.5	<0.5	<100
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<0.5	<0.5	<0.5	<100
1,2,3-Trichloropropane	96-18-4	0.5	<0.5	<0.5	<0.5	<100
Bromobenzene	108-86-1	0.5	<0.5	<0.5	<0.5	<100
n-Propylbenzene	103-65-1	0.5	<0.5	<0.5	<0.5	<100
2-Chlorotoluene	95-49-8	0.5	<0.5	<0.5	<0.5	<100
1,3,5-Trimethylbenzene	108-67-8	0.5	<0.5	<0.5	<0.5	<100
4-Chlorotoluene	106-43-4	0.5	<0.5	<0.5	<0.5	<100
tert-Butylbenzene	98-06-6	0.5	<0.5	<0.5	<0.5	<100
1,2,4-Trimethylbenzene	95-63-6	0.5	<0.5	<0.5	<0.5	<100
sec-Butylbenzene	135-98-8	0.5	<0.5	<0.5	<0.5	<100
4-Isopropyltoluene	99-87-6	0.5	<0.5	<0.5	<0.5	<100
1,3-Dichlorobenzene	541-73-1	0.5	<0.5	<0.5	<0.5	<100
1,4-Dichlorobenzene	106-46-7	0.5	<0.5	<0.5	<0.5	<100
n-Butylbenzene	104-51-8	0.5	<0.5	<0.5	<0.5	<100
1,2-Dichlorobenzene	95-50-1	0.5	<0.5	<0.5	<0.5	<100
1-2-Dibromo-3-CPA	96-12-8	1.0	<1.0	<1.0	<1.0	<200
1,2,4-Trichlorobenzene	120-82-1	0.5	<0.5	<0.5	<0.5	<100
Hexachlorobutadiene	87-68-3	0.5	<0.5	<0.5	<0.5	<100
Naphthalene	91-20-3	0.5	<0.5	<0.5	<0.5	<100
1,2,3-Trichlorobenzene	87-61-6	0.5	<0.5	<0.5	<0.5	<100
<b>SURROGATE RECOVERY</b>			%RC	%RC	%RC	%RC
	<i>Dibromofluoromethane</i>		101	98	99	102
	<i>Toluene-d8</i>		92	104	102	95
	<i>4-Bromofluorobenzene</i>		122	124	121	122

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Irvine, CA 92612

Client Project ID: Boeing C-6  
Client Project #: 004016.00

**SAMPLE DESCRIPTION (Water)**

Laboratory Reference #: KJC 11598

<b>Sampled:</b>	06/26/00	06/26/00	06/26/00	06/26/00
<b>Received:</b>	06/27/00	06/27/00	06/27/00	06/27/00
<b>Analyzed:</b>	07/05/00	07/05/00	06/30/00	07/05/00
<b>Reported:</b>	07/10/00	07/10/00	07/10/00	07/10/00

<b>Lab Sample I.D.</b>	00060182	00060183	00060184	00060185
<b>Client Sample I.D.</b>	WCC-3S	WCC-6S	WCC-6S	DAC-P1
	-W062600	-W062600	-R062600	-W062600

**VOLATILE ORGANICS BY GC/MS (EPA 8260)**

<b>ANALYTE</b>	<b>CAS NUMBER</b>	<b>DETECTION</b>	<b>SAMPLE RESULTS</b>			
		<b>LIMIT</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>	<b>µg/l</b>
Benzene	71-43-2	0.5	380	43	<0.5	<50
Bromodichloromethane	75-27-4	1.0	<250	<50	<1.0	<100
Bromoform	75-25-2	0.5	<125	<25	<0.5	<50
Bromomethane	74-83-9	1.0	<250	<50	<1.0	<100
Carbon Disulfide	75-15-0	0.5	<125	<25	<0.5	<50
Carbon tetrachloride	56-23-5	0.5	<125	<25	<0.5	<50
Chlorobenzene	108-90-7	0.5	<125	<25	<0.5	<50
Chlorodibromomethane	124-48-1	0.5	<125	<25	<0.5	<50
Chloroethane	75-00-3	0.5	<125	<25	<0.5	<50
2-Chloroethyl vinyl ether	110-75-8	0.5	<125	<25	<0.5	<50
Chloroform	67-66-3	0.5	<125	<25	<0.5	<50
Chloromethane	74-87-3	0.5	<125	<25	<0.5	<50
1,1-Dichloroethane	75-34-3	0.5	630	76	<0.5	<50
1,2-Dichloroethane	107-06-2	0.5	<125	<25	<0.5	<50
1,1-Dichloroethene	75-35-4	0.5	25,000	5,300	<0.5	<50
trans-1,2-Dichloroethene	156-60-5	0.5	840	91	<0.5	<50
1,2-Dichloropropane	78-87-5	0.5	<125	<25	<0.5	<50
cis-1,3-Dichloropropene	10061-01-5	0.5	<125	<25	<0.5	<50
trans-1,3-Dichloropropene	10061-02-6	0.5	<125	<25	<0.5	<50
Ethylbenzene	100-41-4	0.5	<125	<25	<0.5	<50
Methylene chloride	75-09-2	2.5	<625	<125	<2.5	<250
Styrene	100-42-5	0.5	<125	<25	<0.5	<50
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<125	<25	<0.5	<50
Tetrachloroethene	127-18-4	0.5	<125	<25	<0.5	<50
Toluene	108-88-3	0.5	48,000	4,700	<0.5	<50
1,1,1-Trichloroethane	71-55-6	0.5	2,400	1600	<0.5	<50
1,1,2-Trichloroethane	79-00-5	0.5	<125	<25	<0.5	<50
Trichloroethene	79-01-6	0.5	770	1,500	<0.5	14,000
Trichlorofluoromethane	75-69-4	0.5	<125	<25	<0.5	<50
Vinyl acetate	108-05-4	1.0	<250	<50	<1.0	<100
Vinyl chloride	75-01-4	0.5	<125	<25	<0.5	<50
Total Xylenes	1330-20-7	1.0	<250	<50	<1.0	<100
Dichlorodifluoromethane	75-71-8	0.5	<125	<25	<0.5	<50
cis-1,2-Dichloroethene	156-59-2	0.5	7,600	2,000	<0.5	79
2,2-Dichloropropane	594-20-7	0.5	<125	<25	<0.5	<50

## VOLATILE ORGANICS BY GC/MS (EPA 8260)

(continued)

**Laboratory Reference #:** KJC 11598**Sampled:** 06/26/00    **06/26/00**    **06/26/00**    **06/26/00****Received:** 06/27/00    **06/27/00**    **06/27/00**    **06/27/00****Analyzed:** 07/05/00    **07/05/00**    **06/30/00**    **07/05/00****Reported:** 07/10/00    **07/10/00**    **07/10/00**    **07/10/00****Client Project ID:** Boeing C-6**Client Sample I.D.** **00060182**    **00060183**    **00060184**    **00060185****Client Project #:** 004016.00**Client Sample I.D.** **WCC-3S**    **WCC-6S**    **WCC-6S**    **DAC-P1****-W062600**    **-W062600**    **-R062600**    **-W062600****ANALYTE (CONT)****CAS  
NUMBER****DETECTION****LIMIT****SAMPLE RESULTS**

		<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>	<i>ug/l</i>
Bromochloromethane	74-97-5	0.5	<125	<25	<0.5	<50
1,1-Dichloropropene	563-58-6	0.5	<125	<25	<0.5	<50
Dibromomethane	74-95-3	0.5	<125	<25	<0.5	<50
1,2-Dibromoethane	106-93-4	0.5	<125	<25	<0.5	<50
1,3-Dichloropropane	142-28-9	0.5	<125	<25	<0.5	<50
Isopropylbenzene	98-82-8	0.5	<125	<25	<0.5	<50
1,1,2,2-Tetrachloroethane	79-34-5	0.5	<125	<25	<0.5	<50
1,2,3-Trichloropropane	96-18-4	0.5	<125	<25	<0.5	<50
Bromobenzene	108-86-1	0.5	<125	<25	<0.5	<50
n-Propylbenzene	103-65-1	0.5	<125	<25	<0.5	<50
2-Chlorotoluene	95-49-8	0.5	<125	<25	<0.5	<50
1,3,5-Trimethylbenzene	108-67-8	0.5	<125	<25	<0.5	<50
4-Chlorotoluene	106-43-4	0.5	<125	<25	<0.5	<50
tert-Butylbenzene	98-06-6	0.5	<125	<25	<0.5	<50
1,2,4-Trimethylbenzene	95-63-6	0.5	<125	<25	<0.5	<50
sec-Butylbenzene	135-98-8	0.5	<125	<25	<0.5	<50
4-Isopropyltoluene	99-87-6	0.5	<125	<25	<0.5	<50
1,3-Dichlorobenzene	541-73-1	0.5	<125	<25	<0.5	<50
1,4-Dichlorobenzene	106-46-7	0.5	<125	<25	<0.5	<50
n-Butylbenzene	104-51-8	0.5	<125	<25	<0.5	<50
1,2-Dichlorobenzene	95-50-1	0.5	<125	<25	<0.5	<50
1-2-Dibromo-3-CPA	96-12-8	1.0	<250	<50	<1.0	<100
1,2,4-Trichlorobenzene	120-82-1	0.5	<125	<25	<0.5	<50
Hexachlorobutadiene	87-68-3	0.5	<125	<25	<0.5	<50
Naphthalene	91-20-3	0.5	<125	<25	<0.5	<50
1,2,3-Trichlorobenzene	87-61-6	0.5	<125	<25	<0.5	<50

**SURROGATE  
RECOVERY****%RC**    **%RC**    **%RC**    **%RC****Dibromofluoromethane**    104    105    98    106**Toluene-d8**    95    97    87    94**4-Bromofluorobenzene**    121    123    118    123

**Kennedy Jenks Consultants**

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 Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

<b>Sampled:</b>	---	06/26/00	06/26/00
<b>Received:</b>	---	06/27/00	06/27/00
<b>Reported:</b>	07/10/00	07/10/00	07/10/00

Laboratory Reference #: KJC 11598

<b>Lab Sample I.D.</b>	MB	00060175	00060177
<b>Client Sample I.D.</b>	---	BL-2	BL-1
		-W062600	-W062600

**CCR METALS**

<b>ANALYTE</b>	<b>DATE TESTED</b>	<b>EPA METHOD</b>	<b>DETECTION LIMIT</b> <i>mg/l</i>	<b>SAMPLE RESULTS</b>	
			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>
Antimony	07/06/00	6010	0.1	<0.1	<0.1
Arsenic	07/06/00	6010	0.1	<0.1	<0.1
Barium	07/06/00	6010	0.01	<0.01	0.13
Beryllium	07/06/00	6010	0.01	<0.01	<0.01
Cadmium	07/06/00	6010	0.01	<0.01	<0.01
Chromium (VI)	06/26/00	7196	0.01	<0.01	0.012
Chromium (Total)	07/06/00	6010	0.01	<0.01	0.028
Cobalt	07/06/00	6010	0.01	<0.01	<0.01
Copper	07/06/00	6010	0.01	<0.01	0.011
Lead	07/06/00	6010	0.05	<0.05	<0.05
Mercury	06/30/00	7471	0.001	<0.001	<0.001
Molybdenum	07/06/00	6010	0.05	<0.05	<0.05
Nickel	07/06/00	6010	0.01	<0.01	<0.01
Selenium	07/06/00	6010	0.1	<0.1	<0.1
Silver	07/06/00	6010	0.01	<0.01	<0.01
Thallium	07/06/00	6010	0.1	<0.1	<0.1
Vanadium	07/06/00	6010	0.01	<0.01	0.011
Zinc	07/06/00	6010	0.01	<0.01	0.023
					0.039

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**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

<b>Sampled:</b>	06/26/00	06/26/00	06/26/00	06/26/00
<b>Received:</b>	06/27/00	06/27/00	06/27/00	06/27/00
<b>Reported:</b>	07/10/00	07/10/00	07/10/00	07/10/00

Laboratory Reference #: KJC 11598

<b>Lab Sample I.D.</b>	00060178	00060179	00060180	00060181
<b>Client Sample I.D.</b>	WCC-3D	WCC-3D	TMW-16	TMW-2
	-W062600	-D062600	-W062600	-W062600

**CCR METALS**

<b>ANALYTE</b>	<b>DATE TESTED</b>	<b>EPA METHOD</b>	<b>DETECTION LIMIT</b>	<b>SAMPLE RESULTS</b>			
			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>
Antimony	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Barium	07/06/00	6010	0.01	0.082	0.082	0.10	0.39
Beryllium	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	06/26/00	7196	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (Total)	07/06/00	6010	0.01	<0.01	<0.01	0.058	0.35
Cobalt	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Copper	07/06/00	6010	0.01	<0.01	<0.01	0.012	<0.01
Lead	07/06/00	6010	0.05	<0.05	<0.05	<0.05	<0.05
Mercury	06/30/00	7471	0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	07/06/00	6010	0.05	<0.05	<0.05	<0.05	<0.05
Nickel	07/06/00	6010	0.01	<0.01	<0.01	0.016	<0.01
Selenium	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Silver	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Thallium	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	07/06/00	6010	0.01	<0.01	<0.01	0.025	<0.01
Zinc	07/06/00	6010	0.01	0.027	0.013	0.066	0.031

**Kennedy Jenks Consultants**

ATTN: Mr. Rus Purcell  
 2151 Michelson Dr., Suite 100  
 Irvine, CA 92612

**Client Project ID:** Boeing C-6  
**Client Project #:** 004016.00

**SAMPLE DESCRIPTION (Water)**

<b>Sampled:</b>	06/26/00	06/26/00	06/26/00	06/26/00
<b>Received:</b>	06/27/00	06/27/00	06/27/00	06/27/00
<b>Reported:</b>	07/10/00	07/10/00	07/10/00	07/10/00

Laboratory Reference #: KJC 11598

<b>Lab Sample I.D.</b>	00060182	00060183	00060184	00060185
<b>Client Sample I.D.</b>	WCC-3S	WCC-6S	WCC-6S	DAC-P1
	-W062600	-W062600	-R062600	-W062600

**CCR METALS**

<b>ANALYTE</b>	<b>DATE TESTED</b>	<b>EPA METHOD</b>	<b>DETECTION LIMIT</b>	<b>SAMPLE RESULTS</b>			
			<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>	<b>mg/l</b>
Antimony	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Arsenic	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Barium	07/06/00	6010	0.01	0.32	0.19	<0.01	0.12
Beryllium	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Cadmium	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Chromium (VI)	06/26/00	7196	0.01	<0.01	<0.01	<0.01	0.28
Chromium (Total)	07/06/00	6010	0.01	<0.01	<0.01	<0.01	0.35
Cobalt	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Copper	07/06/00	6010	0.01	<0.01	<0.01	0.017	<0.01
Lead	07/06/00	6010	0.05	<0.05	<0.05	<0.05	<0.05
Mercury	06/30/00	7471	0.001	<0.001	<0.001	<0.001	<0.001
Molybdenum	07/06/00	6010	0.05	<0.05	<0.05	<0.05	<0.05
Nickel	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Selenium	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Silver	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Thallium	07/06/00	6010	0.1	<0.1	<0.1	<0.1	<0.1
Vanadium	07/06/00	6010	0.01	<0.01	<0.01	<0.01	<0.01
Zinc	07/06/00	6010	0.01	0.024	0.012	0.021	<0.01

## QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 06/30/00

Laboratory Sample No : 00060169

Laboratory Reference No : KJC 11598

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
1,1-Dichloroethene	0.0	20	18	18	90	90	0
Benzene	0.0	20	20	20	100	100	0
Trichloroethene	50	20	71	70	105	100	1
Toluene	0.0	20	20	20	100	100	0
Chlorobenzene	0.0	20	23	23	115	115	0

### Definition of Terms :

- R1                  Results Of First Analysis  
SP                  Spike Concentration Added to Sample  
MS                  Matrix Spike Results  
MSD                Matrix Spike Duplicate Results  
PR1                Percent Recovery Of MS:  $\{(MS-R1) / SP\} \times 100$   
PR2                Percent Recovery Of MSD:  $\{(MSD-R1) / SP\} \times 100$   
RPD                Relative Percent Difference:  $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

## QC DATA REPORT

Analysis : Volatile Organics by GC/MS (EPA 8260)

Date of Analysis : 07/05/00

Laboratory Sample No : 00060178

Laboratory Reference No : KJC 11598

Analyte	R1 (ppb)	SP (ppb)	MS (ppb)	MSD (ppb)	PR1 %	PR2 %	RPD %
1,1-Dichloroethene	0.0	20	19	18	95	90	5
Benzene	0.0	20	21	21	105	105	0
Trichloroethene	3.1	20	25	25	110	110	0
Toluene	0.0	20	20	20	100	100	0
Chlorobenzene	0.0	20	22	22	110	110	0

### Definition of Terms :

- R1                  Results Of First Analysis  
SP                  Spike Concentration Added to Sample  
MS                  Matrix Spike Results  
MSD                Matrix Spike Duplicate Results  
PR1                Percent Recovery Of MS:  $\{(MS-R1) / SP\} \times 100$   
PR2                Percent Recovery Of MSD:  $\{(MSD-R1) / SP\} \times 100$   
RPD                Relative Percent Difference:  $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

INT min

Orange Coast Analytical, Inc.

## QC DATA REPORT

Analysis : Metals

Laboratory Reference No : KJC 11598

Analyte	Date Tested	QC Sample	R1 (ppm)	SP (ppm)	MS (ppm)	MSD (ppm)	PR1 %	PR2 %	RPD %
*Antimony	07/06/00	00060184	0.00	0.50	0.272	0.336	54	67	21
Antimony	07/06/00	OCA 200	0.00	0.50	0.455	0.504	91	101	10
Arsenic	07/06/00	00060184	0.00	1.00	1.04	1.03	104	103	1
Barium	07/06/00	00060184	0.00	0.100	0.117	0.116	117	116	1
Beryllium	07/06/00	00060184	0.00	0.100	0.120	0.120	120	120	0
Cadmium	07/06/00	00060184	0.00	0.100	0.120	0.120	120	120	0
*Chromium (Total )	07/06/00	00060184	0.00	0.100	0.078	0.077	78	77	1
Chromium (Total )	07/06/00	OCA 200	0.00	0.100	0.115	0.115	115	115	0
Chromium ( VI )	06/26/00	00060185	0.28	0.10	0.384	0.378	102	96	2
Cobalt	07/06/00	00060184	0.00	0.100	0.106	0.105	106	105	1
Copper	07/06/00	00060184	0.017	0.100	0.130	0.129	113	112	1
Lead	07/06/00	00060184	0.00	0.50	0.507	0.506	101	101	0
Mercury	06/30/00	00060185	0.00	0.010	0.0098	0.010	98	100	2
Molybdenum	07/06/00	00060184	0.00	0.50	0.500	0.504	100	100.8	1
Nickel	07/06/00	00060184	0.00	0.500	0.497	0.494	99	99	1
*Selenium	07/06/00	00060184	0.00	0.50	0.612	0.595	122	119	3
Selenium	07/06/00	OCA 200	0.00	0.50	0.497	0.497	99	99	0
Silver	07/06/00	00060184	0.00	0.100	0.110	0.111	110	111	1
Thallium	07/06/00	00060184	0.00	1.00	1.02	1.02	102	102	0
Vanadium	07/06/00	00060184	0.00	0.500	0.563	0.561	113	112	0
Zinc	07/06/00	00060184	0.021	0.100	0.129	0.129	108	108	0

\*Matrix Interference

Definition of Terms :

R1	Results Of First Analysis
SP	Spike Concentration Added to Sample
MS	Matrix Spike Results
MSD	Matrix Spike Duplicate Results
PR1	Percent Recovery Of MS: $\{(MS-R1) / SP\} \times 100$
PR2	Percent Recovery Of MSD: $\{(MSD-R1) / SP\} \times 100$
RPD	Relative Percent Difference: $\{(MS-MSD) / (MS+MSD)\} \times 100 \times 2$

KENNEDY/JENKS CONSULTANTS

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**SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST**

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**POSSIBLE HAZARDS:** \_\_\_\_\_

Date 6-26-00

Report To Rus Purcell

Source of Samples Boeing C-6

Company Kennedy/Jenkins

Sampler Name Shane Scrimshire

Address 2157 Michelson Dr. #100

Phone 661-873-1114

Irving CA. 92612

Project No. 004016.00

Phone 949-261-1577

(1) Lab ID No.	(1) Client ID No.	COLLECTION		(2) Type	Depth	(3) Comp.	(4) Pres.	Turn-around	X	T-22	T-1	Hex		Comment/Conditions (Container type, container number, etc.)
		Date	Time											
	BL-2-W062600	9/26/00	1008	W	—	—	HCL	NaOH	X	X	X			
	BL-2-B062600		—		—	—			X					
	BL-1-W062600		1110		—	—			X	X	X			
	WCC-1D-W062600		1503		—	—			X	X	X			
	WCC-1D-D062600		1508		—	—			X	X	X			
	THW-1B-W062600		1412		—	—			X	X	X			
	THW-2-W062600		1453		—	—			X	X	X			
	WCC-3S-W062600		1556		—	—			X	X	X			
	WCC-6S-W062600		1650		—	—			X	X	X			
	WCC-6S-R062600		1710		—	—			X	X	X			
	DAV-P1-W062600		1817		—	—			X	X	X			

- (1) Write only one sample number in each space.  
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.  
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.  
(4) Preservation of sample.  
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

**SAMPLE RELINQUISHED BY:**

Print Name	Signature	Company	Date	
Shane Scrimshire		K/5	4/27/00	

SAMPLE RECEIVED BY

	Print Name	Signature	Company	Date	Time
1	m.Venkatesh	m.Venkatesh	OCA	6-27-04	11:50
2					

**ORANGE COAST ANALYTICAL, INC.**  
**PHONE MESSAGE**

Initials: WAC

Date: 6-27-00

CLIENT: Kennedy Tank

CONTACT: Shane S.

PROJECT: Boeing C-6

Status:  In Progress       Completed       Upcoming/Future

Date Received: 6-27-00

Samples:

Action Item:

Turnaround:

Samples labeled WCC-1D-W062600

and WCC-1D-D062600

Should read WCC 3D-W062600

and WCC 3D-D062600 respectively

Containers Requested:

- vials
- glass jars
- 500 ml plastic
- 1 liter plastic
- 1 liter glass
- trip blank
- Other \_\_\_\_\_

Method Shipment:

- cooler       Fed-Ex ASAP
  - box       UPS
  - Deliver by \_\_\_\_\_
  - Will Call on \_\_\_\_\_
- Include:
- Chain of Custody
  - Blue Ice

KENNEDY/JENKS CONSULTANTS

---

**SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST**

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#### **POSSIBLE HAZARDS:**

Date 6-21-00

Report To Rus Purcell

Source of Samples Boeing C-6

Company Kennedy / Jenkins

Sampler Name Steve Scrimshire

Address 2151 Michelson Dr. Ste 100

Phone 661-835-9785

IRVINE CA. 92612

Project No. 004016.00

Phone 949-261-1577

- (1) Write only one sample number in each space.  
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.  
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.  
(4) Preservation of sample.  
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

**SAMPLE RELINQUISHED BY:**

Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
Shane Scrimshire		KLS	6/21/00	11:50					
Tina Williams		OCA	6/21/00	11:35					

## KENNEDY/JENKS CONSULTANTS

## **SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST**

#### **POSSIBLE HAZARDS:**

Date 6-22-00

Report To RUS Purcell

Source of Samples Boeing C-6

Company Kennals (5 units)

Sampler Name Shane Scrimshire

Address 7151 Michelson Dr. #100

Phone 661-835-9785

ENR 9A 93612

Project No. 004016.00

Phone 5949-261-1577

(1) Lab ID No.	(1) Client ID No.	COLLECTION		(2) Type	(3) Depth	(4) Comp.	Pres.	Turn-around	Comment/Conditions (Container type, container number, etc.)		
		Date	Time								
	TMW-14-W062100	6/21/00	1505	W	—	—	NCL	Normal	X	X	X
	WCC-4S-W062100	"	1658	"	—	—	"	"	X	X	X
	THW-15-W062200	6/21/00	0805	"	—	—	"	"	X	X	X
	WCC-7S-W062200	"	0900	"	—	—	"	"	X	X	X
	WCC-5S-W062200	"	1006	"	—	—	"	"	X	X	X
	WCC-11S-W062200	"	1130	"	—	—	"	"	X	X	X
	WCC-11S-D062200	"	1135	"	—	—	"	"	X	X	X
	TMW-14-B062100	6/21/00	—	"	—	—	"	"	X		

- (1) Write only one sample number in each space.  
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.  
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.  
(4) Preservation of sample.  
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

SAMPLE RELINQUISHED BY:

Print Name	Signature	Company	Date	Time
Chase Scrimshire		K/S	4/2/00	12:00
Tina Nunn		DKA	4/2/00	12:00

SAMPLE RECEIVED BY:

Print Name	Signature	Company	Date	Time

KENNEDY/JENKS CONSULTANTS

---

**SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST**

---

**POSSIBLE HAZARDS:** \_\_\_\_\_

Date 6-23-00

Report To RUS Purcell

Source of Samples Boeing C-6

Company Kennedy/Jenkins

Sampler Name Shane Scrimshire

FRINE CA. 92612

Project No. 004016.00

Phone 949-261-1577

- 200 New Stine Rd., #115, Bakersfield, CA 93309
  - 630 South 336th St., Federal Way, WA 98003
  - 17310 Red Hill Ave., #220, Irvine, CA 92714
  - 2191 East Bayshore Rd. #200, Palo Alto, CA 94303

- 5190 Neil Road, #300, Reno, NV 89502
  - 3336 Bradshaw Rd., #140, Sacramento, CA 95827
  - 303 Second St., San Francisco, CA 94107
  - 1000 Hill Rd. #200, Ventura, CA 93003

(5)  
ANALYSES REQUESTED

1015 - 8260	15-22 metal 5 - 610	Alk. Chrom. - 7196				
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Lab Destination Orange Coast

**Address**

Phone

Carrier/Way Bill No.

- (1) Write only one sample number in each space.  
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.  
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(4) Preservation of sample.  
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

**SAMPLE RELINQUISHED BY:**

Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
Shane Scrimshire		K/J	4/23/00	9:12					
ISAAC NEVANIAN		OCA	4/23/00	12:42					

KENNEDY/JENKS CONSULTANTS

---

## SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST

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- 200 New Stine Rd., #115, Bakersfield, CA 93309
  - 530 South 336th St., Federal Way, WA 98003
  - 17310 Red Hill Ave., #220, Irvine, CA 92714
  - 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
  - 5190 Neil Road, #300, Reno, NV 89502
  - 3336 Bradshaw Rd., #140, Sacramento, CA 95827
  - 303 Second St., San Francisco, CA 94107
  - 1000 Hill Rd., #200, Ventura, CA 93003

#### **POSSIBLE HAZARDS:**

Date 6-23-00

Report To: Russ Purcell

Source of Samples Boeing C-6

Company Kennedy / Jenks

Sampler Name Shane Scrimshire

Address 2151 Michelson Dr. #100

Phone 661-835-9785

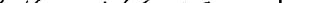
Trine CA 92612

Project No. 004016-00

Phone 449-261-1577

- (1) Write only one sample number in each space.  
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.  
(3) Mark each sample which should be composited in Laboratory as follows: Place an "A" in box for each sample that should be composited into one sample; use sequential letter for additional groups.  
(4) Preservation of sample.  
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

**SAMPLE RELINQUISHED BY:**

Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
Shane Scrivnshire		KIS	6/23/00	012					
Tsang Norman		OCA	6/23/00	12:12					

KENNEDY/JENKS CONSULTANTS

## **SAMPLE CHAIN-OF-CUSTODY ANALYSIS REQUEST**

- 200 New Stine Rd., #115, Bakersfield, CA 93309
  - 5190 Neil Road, #300, Reno, NV 89502
  - 530 South 336th St., Federal Way, WA 98003
  - 3336 Bradshaw Rd., #140, Sacramento, CA 95827
  - 17310 Red Hill Ave., #220, Irvine, CA 92714
  - 303 Second St., San Francisco, CA 94107
  - 2191 East Bayshore Rd., #200, Palo Alto, CA 94303
  - 1000 Hill Rd., #200, Ventura, CA 93003

POSSIBLE HAZARDS: \_\_\_\_\_

Date 6-26-00

Report To Rus Purcell

Source of Samples Breeding C-6

Company Kennedy/Jenks

Sampler Name Shane Scrimshire

Address 2151 Michelson Dr. #100

Phone 661-873-1114

Irvine CA. 92612

Project No. 004016.00

Phone 949-261-1577

- (1) Write only one sample number in each space.  
(2) Specify type of sample(s): Water (W), Solid (S), or indicate type.  
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(4) Preservation of sample.  
(5) Write each analyses requested across top. Place an "X" in appropriate column to indicate type of analysis needed for each sample.

**SAMPLE RELINQUISHED BY:**

Print Name	Signature	Company	Date	Time	Print Name	Signature	Company	Date	Time
Shane Scrimshire		K/5	6/27/00		M. Van Konyngham		OCA	6-27-00	T.S.